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**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**2510 SOUTH CEDAR STREET**  
**CITY OF LANSING, MICHIGAN**

*for*

**THE LANSING**  
**BROWNFIELD REDEVELOPMENT AUTHORITY**  
**LANSING, MICHIGAN**

**AKT PEERLESS PROJECT NO. 3268S-2-17**  
**JULY 27, 2001**

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**FOR**

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**AKT PEERLESS PROJECT NO. 3268S-2-17**

**1.0 INTRODUCTION**

The Lansing Brownfield Redevelopment Authority (Lansing BRA) retained AKT Peerless Environmental Services (AKT Peerless), to conduct a Phase I Environmental Site Assessment (ESA) for the property located at 2510 South Cedar Street (formally operated as 2508 & 2510 South Cedar Street), Lansing, Michigan. AKT Peerless' scope of work and methodology is based on its proposal number 3268s dated July 19, 2001 and the terms and conditions of the agreement.

AKT Peerless' proposed scope of work is based on American Society for Testing and Materials' (ASTM's) "*Standard Practice For Environmental Site Assessments: ESA E-1527*," which defines good commercial and customary practice for conducting an ESA and establishing "due diligence." The Phase I ESA is intended to satisfy the due-diligence requirements to qualify for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

This Phase I ESA was performed for the benefit of the Lansing BRA, and said party may rely on the contents and conclusions presented in this report. A subsurface investigation of the subject property was not conducted as part of this assessment.

**1.1 PURPOSE**

The purpose of AKT Peerless' Phase I ESA is to provide an independent, professional opinion of identified Recognized Environmental Conditions (RECs) associated with the subject property prior to a potential property transaction. According to ASTM's standard E 1527, the term Recognized Environmental Conditions means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate: (1) an existing release, (2) a past release, or (3) a material threat of a release of any hazardous substances or petroleum products into structures on the subject property or into the ground, groundwater, or surface water of the property. The term is not intended to include de minimis conditions that generally: (1) do not present a material risk of harm to public health or the environment and (2)



would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

AKT Peerless used appropriate industry standards in maintaining innocent landowner defense options available to purchasers, sellers, and/or lenders under the Superfund Amendments and Reauthorization Act (SARA). Performance of this Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property.

## **1.2 PROJECT RESOURCES**

AKT Peerless referred to the following resources between July 23, 2001, and July 25, 2001 to complete its Phase I ESA:

- United States Environmental Protection Agency (USEPA), Region 5
- United States Department of Agriculture (USDA) Soil Conservation Service
- United States Geological Survey (USGS)
- Michigan Department of Environmental Quality (MDEQ)
- MDEQ Storage Tank Division (STD)
- MDEQ Environmental Response Division (ERD)
- MDEQ Geological Survey Division (GSD)
- MDEQ Waste Management Division (WMD)
- Ingham County Health Department
- City of Lansing Fire Department
- City of Lansing Tax Assessor's Office
- Environmental Data Resources (EDR), Inc.

AKT Peerless conducted and/or attempted to conduct interviews with the following personnel between July 23, 2001, and July 25, 2001 to complete its Phase I ESA:

- Mr. Ahmed & Fatima Elkadri, Previous Owners of the subject property
- Ms. Vicki Barnard, MDEQ/GSD, Saginaw Bay District Office, Bay City, Michigan
- Ms. Karen Munro, MDEQ/STD, Shiawassee District Office, Morrice, Michigan
- Ms. Rita Monette, MDEQ/ERD, Shiawassee District Office, Morrice, Michigan
- Ms. Susan Bishop, MDEQ/WMD, Shiawassee District Office, Morrice, Michigan
- Mr. Greg Martin, Fire Chief, City of Lansing Fire Department

## **1.3 LIMITATIONS AND EXCEPTIONS OF THE ESA**

AKT Peerless encountered the following limitations or exceptions in completing the ESA:

- Evaluation of soil and groundwater features at and near the subject property was based only on published maps and other readily available information. AKT Peerless used this information to assess soil types and groundwater flow

directions to determine if any nearby sites present an environmental risk to the subject property.

- AKT Peerless does not typically review nearby sites in detail unless the site appears to present a likely environmental risk to the subject property.
- Unless specifically noted, invasive investigation of any kind has not been performed. Observation under floors, above ceilings, behind walls, within surface and subsurface soils, within groundwater, within confined spaces, or inaccessible areas has not been performed.
- Based on ASTM Standard Practice E 1527 and AKT Peerless' understanding of the purpose of this assessment, AKT Peerless' ESA did not include investigation for lead in drinking water or lead-based paint.
- Nothing in this report constitutes a legal opinion or legal advice. For information regarding individual or organizational liability AKT Peerless recommends consultation with independent legal counsel.
- At the completion of this Phase I ESA, Ingham County Health Department personnel have not responded to AKT Peerless' Freedom of Information Act (FOIA) request.
- At the completion of this Phase I ESA, AKT Peerless was unable to contact the previous owner of the subject property, Mr. Ahmed & Fatima Elkadri, and CAP-LAB, Inc., current owner, for information pertaining to the subject property.
- At the completion of this Phase I ESA, Mr. Greg Martin, Fire Chief, City of Lansing Fire Department, has not responded to AKT Peerless' FOIA request.

#### **1.4 SPECIALIZED INFORMATION REPORTED BY CLIENT**

To assist AKT Peerless in identifying conditions of potential environmental concern at the subject property, AKT Peerless attempted to requested the following information from Mr. Ahmed & Fatima Elkadri, the previous owners:

- Known environmental liens identified during a land title records search.
- Specialized knowledge or experience that is material to identifying environmental concerns in connection with the property.
- Environmental records or reports regarding potential or known environmental liabilities associated with the subject property.

At the completion of this Phase I ESA, AKT Peerless was unable to contact the previous owners.

## 2.0 SITE DESCRIPTION

### 2.1 LOCATION

The subject property (parcel identification number 33-01-01-28-256-082) is located at 2510 South Cedar Street in Lansing, Michigan and encompasses 0.823 acres. The subject property is situated in the southwest 1/4, of the northeast 1/4, of Section 28, Township 4 North, Range 2 West, Ingham County, Michigan.

Refer to Figure 1, Property Location Map; Figure 2, Property/Surrounding Area Map; and Figure 3, Topographic Location Map. The legal description of the subject property is provided in Appendix A. Photographs taken during AKT Peerless' site inspection are provided in Appendix B.

### 2.2 SITE AND VICINITY CHARACTERISTICS

In general, the subject property is level with adjacent properties and is located in a mixed residential and commercial business area of Lansing. According to local tax assessment records, the subject property is owned by CAP-LAB, P.L.C. and is zoned F-Commercial.

The subject property is bordered to the north by Lincoln Avenue, beyond which is a commercial business and a residential dwelling; to the east by South Cedar Street, beyond which is various commercial businesses; to the south by a commercial business; and to the west by a residential apartment building.

### 2.3 STRUCTURES/OTHER IMPROVEMENTS

One building is located on the subject property. General information regarding this building is described in the following table.

Building Type	Construction and Number of Stories	Approximate Total Square Footage	Construction and Improvements Dates
Former Billiards Lounge	Single-story building with inaccessible sub-floor; steel I-beam frame; poured concrete, tile, and carpeted floor; metal deck roof; concrete block exterior walls, and concrete block foundation.	8,316 ft <sup>2</sup>	Original construction date of the building is 1937. Repair to building from fire damage occurred in approximately 1978.

The subject was unoccupied at the time of this Phase I ESA. Improvements for the surrounding area include paved roadway access, municipal water, telephone, electric, and natural gas services.

## 2.4 UTILITIES AND MUNICIPAL SERVICES

AKT Peerless reviewed the type and supplier of utilities and municipal services for the subject property. These services are described in the following table.

Utility/Service	Type	Utility Company or Municipality	Historical Services
Heating	Natural Gas	Consumers Energy	None identified
Municipal waste	None currently generated	Not Applicable	None identified
Potable water	Municipal	Lansing Board of Water and Light	None identified
Electrical	Transformer	Lansing Board of Water and Light	None identified
Sewerage disposal	Municipal Available	City of Lansing	None identified

AKT Peerless contacted Ms. Sally Town, Consumers Energy Engineering Department, regarding availability of utilities and natural gas to the subject property. Ms. Town provided AKT Peerless with contact numbers for the Lansing area. AKT Peerless attempted to contact Mr. Tom Barnhill, Mr. Ed Steelman, and Mr. Kurt Fader of the Lansing area Consumers Energy Engineering Department regarding availability of utilities and natural gas to the subject property. The Lansing area Consumers Energy Engineering Department indicated they have supplied natural gas to the subject property since 1986, however, they had no information prior to that date. Water and electric were supplied by Lansing Board of Water and Light since at least 1974, however, they had no information prior to that date.

AKT Peerless contacted the Lansing Board of Water & Light, regarding municipal water service information in regard to the subject property. Water Department personnel indicated the subject property is currently hooked up to municipal water and water service has been provided since at least 1974. Information pertaining to the subject property was not available from the Water Department prior to 1974.

AKT Peerless contacted the Lansing Engineering Division, regarding municipal sewer service information in regard to the subject property. Engineering Division personnel indicated the subject property is currently hooked up to municipal sewer, which has been available since 1923.

## 2.5 CURRENT USES OF THE PROPERTY

The subject property is currently owned by CAP-LAB, P.L.C. and is zoned F-Commercial. At the time of the Phase I ESA, the subject property and associated building were unoccupied. Historical use of the subject property is discussed further in Section 3.3.

## 2.6 CURRENT USES OF ADJOINING PROPERTIES

The current uses of adjoining and other select surrounding properties are described in the following table.

Adjoining Property Use	Potential Environmental Concerns
To the north of the subject property is Lincoln Avenue, beyond which is Coscaelli's Restaurant and a residential dwelling.	None
To the east of the subject property is South Cedar Street, beyond which is the Baryames Dry Cleaner and various commercial businesses.	Use of hazardous materials at the dry cleaners.
To the south of the subject property is CAP-LAB, P.L.C (a pathology laboratory).	None
To the west of the subject property is a residential apartment building.	None

Based on AKT Peerless' visual observations, the adjoining Baryames Dry Cleaner represents a potential environmental concern to the subject property. As presented in Section 3.2, this adjoining dry cleaner was identified as a Resource Conservation and Recovery Information System Small Quantity Generator (RCRIS SQG) during its records review or regulatory database search.

## 3.0 ENVIRONMENTAL RECORDS REVIEW

The objective of the records review is to evaluate the information contained in reasonably ascertainable databases, historical records, and physical setting records to help identify RECs at the property and, to the extent identifiable, at surrounding properties.

### 3.1 PHYSICAL SETTING RECORDS

AKT Peerless reviewed USDA soil conservation surveys and geological survey maps to determine geologic, hydrologic, and topographic conditions which might affect potential contaminant migration to the subject property.

#### 3.1.1 Topography and Area Hydrogeology

Based on a review of the USGS Topographic Map titled *Lansing South, Michigan Quadrangle* (See Figure 3), the subject property rests at an elevation of approximately 852 feet above the National Geodetic Vertical Datum. Based on the topographic contours, the regional surface water discharge appears to be to the northeast. Typically, the water table aquifer flows toward a major drainage feature (the Sycamore Creek is located approximately 1.1 miles northeast of the subject property) or in the same direction as the drainage basin. Therefore, it is likely groundwater in the area of the subject property flows to the northeast. However, both surface

water and groundwater flow may be influenced by local manmade obstructions and diversions (e.g., buildings, roads, sewer systems, and utility service lines). To determine the site-specific groundwater flow direction, subsurface information would be necessary.

### **3.1.2 Area Soils**

According to the United States Department of Agriculture, *Soil Survey of Ingham County, Michigan*, the soil in the area is classified as Urban Land (74) association. These soils are described as “*nearly level and gently sloping areas covered by streets, parking lots, buildings, and other structures.*” These soils have been covered or altered in about 85% of the areas.

According to the Michigan Geological Survey Division’s publication, *Quaternary Geology of Southern Michigan*, soils in the area are medium-textured glacial till. These soils are described as gray, grayish brown or reddish brown, non-sorted glacial debris; matrix is dominantly loam and silt loam texture, with variable amounts of cobbles and boulders. These soils occur as ground moraine, till plain, or undifferentiated ground moraine-end moraine complexes, and includes areas of coarser or finer-textured tills as well as small areas of outwash. The thickness of the soil ranges from 60 to 90 feet.

## **3.2 FEDERAL AND STATE DATABASES**

AKT Peerless retained EDR, Inc., to compile federal and state environmental database information. The purpose of obtaining this data was to evaluate potential environmental concerns associated with the subject property, adjoining sites, and nearby sites located within specified search parameters. See Appendix C for the EDR report.

Typically, sites at a distance greater than a 1/2-mile radius represent only a remote chance of affecting the subject property. However, the maximum search distance extends to a 1-mile radius for some databases and conforms to ASTM Approximate Minimum Search Distances.

The subject property, 2510 (a.k.a. 2508) South Cedar Road, was not listed on the databases reviewed by EDR.

AKT Peerless reviewed the databases (including the orphan list) and considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the EDR report present an environmental risk to the subject property, AKT Peerless considered the following criteria:

1. Type of database on which the site was identified.
2. Location, direction, and distance of the site relative to the subject property.
3. Anticipated groundwater flow direction in the area of the subject property.
4. Local soil conditions in the area of the subject property.

5. Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes, and ditches) present near the subject property.

Based on AKT Peerless' evaluation of the above criteria, those sites, which could pose an environmental risk to the subject property, are further evaluated by reviewing MDEQ file information. MDEQ files are not reviewed for sites which, based on AKT Peerless' evaluation of the above criteria, do not appear to present an environmental risk to the subject property.

The federal and state databases accessed by EDR and the number of adjoining and nearby sites identified are described in the following table.

Environmental Database	Approx. Min. Search Distance	No. of Sites Identified
National Priority List (NPL)	1.0 mile	0
Resource Conservation and Recovery Information System Treatment, Storage or Disposal Facility (RCRIS-TSDF)	0.5 mile	1
State Hazardous Waste Sites (SHWS)	1.0 mile	5
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	0.5 mile	0
CERC-No Further Remedial Action Planned (NFRAP)	0.25 mile	0
Environmental Response and Notification System (ERNS)	Target Property	0
Solid Waste Facilities/Landfill Sites (SWF/LS)	0.5 mile	0
Leaking underground storage tank (LUST)	0.5 mile	10
Registered underground storage tank (UST)	0.25 mile	6
RCRIS-Small-Quantity Generator (SQG)	0.25 mile	2
RCRIS-Large-Quantity Generator (LQG)	0.25 mile	0

Based on an evaluation of the above criteria and a review of readily available information, AKT Peerless identified one adjoining site in the EDR report which may present an environmental concern to the subject property. Information obtained from the EDR report is summarized as follows.

#### **Baryames Cleaners**

This site adjoins the subject property to the east at 2423 South Cedar Street. This site is identified as a RCRIS SQG in the EDR report likely due to the generation of the waste dry cleaner solvent. According to the EDR report, no records of any hazardous waste violations

associated with the subject property were found during EDR's database research. This site is discussed further in Section 3.3.6.

### **3.3 HISTORICAL USE INFORMATION**

The objective of reviewing historical sources is to: (1) develop a history of previous uses or specific occupancies of the subject property, (2) identify those uses or specific occupancies which are likely to have led to recognizable environmental conditions at the subject property, and to the extent identifiable, at adjoining properties, and (3) identify obvious uses of the subject property from the present, back to the *property's obvious* first developed use, or back to 1940, whichever is earlier.

Based on information obtained during a review of city directories, aerial photographs, Sanborn fire insurance maps; and tax assessment cards, the subject property was undeveloped from at least 1911 until 1936. In 1937, the subject property was developed by a building which correspond with the current building occupying the subject property. This building was operated as two separate addresses, 2508 and 2510 South Cedar Street, from 1937 until approximately 1984.

The 2508 South Cedar Street address, from 1937 until approximately 1984, was operated as a commercial drug store and/or pharmacy.

The 2510 South Cedar Street address, from 1937 until approximately 1959, was operated as a Kroger's grocery store. In 1964 this portion of the subject property was utilized as Shaheens Big Value grocery store. Between approximately 1969 and 1974, a fire caused damage to this portion of the property and required some construction repairs. Following repairs, the address was operated as D&M Produce until approximately 1979. From 1979 until approximately 1984, Hall of Fame Billiards operated the 2510 South Cedar portion of the subject property.

In approximately 1984, Hall of Fame Billiards acquired both addresses and operated them as 2510 South Cedar Street until approximately 1990. From approximately 1990 until the completion of this Phase I ESA, the subject property has been vacant.

Based on a review of historical information, the adjoining properties have consisted primarily of residential properties and various commercial businesses since at least 1911.

#### **3.3.1 Aerial Photographs**

AKT Peerless obtained aerial photographs for the subject property from the Ingham County Equalization Department. AKT Peerless' observations noted during the review of these photographs are summarized in the following table.



Photo Dates	Observations (Subject Property)	Recognized Environmental Conditions
1974, 1979, 1988, 1990 and 1995	One building occupies the subject property and appears to correspond with the current building. A parking lot surrounds this building to the north, east and west.	None

During the aerial photograph review, AKT Peerless did not observe any obvious landfilling or drum-storage areas, pits, artificial ponds, lagoons, or other obvious land features, which could be associated with a Recognized Environmental Condition on the subject property.

AKT Peerless' review of historical aerial photographs of the adjoining properties is summarized in the following table.

Photo Dates	Observations (Adjoining Properties)	Recognized Environmental Conditions
1974 and 1979	The subject property is bordered to the north by Lincoln Avenue, beyond which is a residential dwelling and commercial building; to the east by South Cedar Street, beyond which are several commercial buildings; to the south by a parking lot and commercial building which abuts the subject building along the southern property line; and to the west by a commercial building which is currently a residential apartment complex.	None
1988, 1990 and 1995	The subject property is bordered to the north by Lincoln Avenue, beyond which is a parking lot and commercial building; to the east by South Cedar Street, beyond which are several commercial buildings; to the south by a parking lot and commercial building which abuts the subject building along the southern property line; and to the west by a commercial building which is currently a residential apartment complex.	None

During the aerial photograph review, AKT Peerless did not observe any obvious landfilling or drum-storage areas, pits, artificial ponds, lagoons, or other obvious land features, which could be associated with a Recognized Environmental Condition on the adjoining properties.

Copies of aerial photographs reviewed by AKT Peerless are provided in Appendix D.

### 3.3.2 Plat Maps

AKT Peerless reviewed the plat maps for the subject property at the State of Michigan Historical Library, Lansing, Michigan. The subject property and surrounding properties are depicted as part of the City of Saginaw with no individual property owner information given.

### 3.3.3 Tax Assessment Records

AKT Peerless reviewed tax assessment records for the subject property from the City of Lansing Assessment Office. The potential environmental concerns considered are summarized in the following table.

Environmental Issue	Comments
Storage Tanks	None identified
Asbestos-Containing Materials	None identified
PCB Materials	None identified
Onsite Well/Septic System	None identified
Disposal Facilities/Fill Material (Lagoons, Pits, Landfills)	None identified

According to the records, the building was apparently completed in 1937. In 1978, it appears repairs were made to the building to repair fire damage. No additional information regarding the subject property was available from the tax assessment records.

### 3.3.4 Building Department Records

Records pertaining to the subject property were not readily available for review at the City of Lansing Building Department.

### 3.3.5 City Directories

To evaluate historical information regarding potential past uses of the subject property (2508 and 2510 South Cedar Street), AKT Peerless referred to the EDR-City Directory Abstract. Information obtained from the reviewed directories is summarized in the following tables:

Dates	2508 South Cedar Street Occupant Names or Businesses
1911, 1916, 1921, 1926, 1931 & 1936	Address Not Listed
1941	Probst Drug Store. No 2
1948, 1954, 1959 & 1964	Probst Drug Co. No 2
1969, 1974, & 1979	South Cedar Pharmacy
1984, 1989, 1995, & 2000	Address Not Listed

Dates	2510 South Cedar Street Occupant Names or Businesses
1911, 1916, 1921, 1926, 1931 & 1936	Address Not Listed
1941, 1948, 1954, & 1959	Kroger Co.
1964	Schaheens Big Value, grocery
1969	Under Construction
1974	D&M Produce
1979, 1984, & 1989	Hall of Fame Billiards
1995 & 2000	Address Not Listed

An address which is not listed typically indicates: (1) the property was vacant at the time, (2) a potential building was unoccupied at the time, (3) a previously existing address was different than the current address, (4) the building was not represented in the directory because of a "lag time" between building the structure and compiling the list, or (5) occupant information was not available for inclusion into the directory.

During the city directory review, AKT Peerless did not identify any obvious information which could be associated with a REC in connection with the subject property.

### 3.3.6 Fire Insurance Maps

AKT Peerless retained EDR to search for historical *Sanborn Fire Insurance Maps*. Fire insurance maps were found on the subject property and surrounding area for the years 1926, 1951, 1953, and 1966. Information obtained from the reviewed fire insurance maps is summarized in the following table:

Map Dates	Observations (Subject Property)	Recognized Environmental Conditions
1926	The subject property appears to be undeveloped.	None
1951, 1953 & 1966	One building occupies the subject property and appears to correspond with the current building.	None

The fire insurance maps did not identify any petroleum or hazardous-material-containing storage tank systems, or any other potential environmental concerns on the subject property.

Historical information regarding the adjoining properties, obtained from AKT Peerless' review of the available Sanborn fire insurance maps, is presented in the following table.

Map Dates	Observations (Adjoining Property)	Potential Environmental Concerns
1926	The subject property is bound to the north by Lincoln Avenue, beyond which is undeveloped property; to the east by South Cedar Street, beyond which is undeveloped property; to the south by undeveloped property; and to the west by undeveloped property..	None
1951	The subject property is bound to the north by Lincoln Avenue, beyond which is not depicted on the map; to the east by South Cedar Street, beyond which is a fuel station and various commercial businesses; to the south by a commercial bank; and to the west by an unidentified structure.	Gasoline storage tank at the fuel station property.
1953	The subject property is bound to the north by Lincoln Avenue, beyond which is not depicted on the map; to the east by South Cedar Street, beyond which is a gasoline filling station, a used automobile sales lot, and various commercial businesses; to the south by a commercial bank; and to the west by an unidentified structure.	Gasoline storage tank at the gasoline filling station property.
1966	The subject property is bounded to the north by Lincoln Avenue, beyond which is not depicted on the map; to the east by South Cedar Street, beyond which is a gasoline filling station, a automobile garage service, two dry cleaners, and various commercial businesses; to the south by a commercial business which was not constructed in 1953; and to the west by a large residential dwelling which is most likely an apartment complex.	Gasoline storage tank at the gasoline filling station property; potential use of petroleum products and/or hazardous substances at the automobile garage service property; and potential use of hazardous substances at the dry cleaning properties.

Several properties, located east of the subject property across South Cedar Street, likely used storage tanks, petroleum products, and/or hazardous chemicals during normal business operations. Due to lack of information regarding these adjoining properties and the current use of one property as a dry cleaning operation (Baryames Dry Cleaners), these properties represent the potential for a past release, an existing release, or a material threat of a release of hazardous substances or petroleum products to the subject property and are a REC in connection with the subject property.

A copy of the Sanborn Fire Insurance Maps is provided in Appendix E.

### 3.3.7 50-Year Chain of Title

AKT Peerless' scope of work did not include conducting a review of property title documentation. It has been AKT Peerless' experience that reviewing title search information generally does not yield information beneficial in completing a Phase I ESA.

### **3.4 ADDITIONAL INFORMATION**

#### **3.4.1 Property Owner Interview**

AKT Peerless attempted to contact Mr. Ahmed & Fatima Elkadri, the previous owners of the subject property, and CAP-Lab, Inc., the current owner, for information pertaining to the subject property. At the completion of this Phase I ESA, the information had not been received by AKT Peerless. This is a limitation of this Phase I ESA.

#### **3.4.2 Local Fire Department**

AKT Peerless submitted an environmental questionnaire to Mr. Greg Martin, Fire Chief, City of Lansing Fire Department, to obtain available information regarding registered storage tanks or incident reports on the subject property. Mr. Martin, at the completion of this Phase I ESA, had not responded. This is a limitation of this Phase I ESA.

#### **3.4.3 Local Health Department**

AKT Peerless submitted an environmental questionnaire to the Ingham County Health Department. Health Department personnel, at the completion of this Phase I ESA, had not responded. This is a limitation of this Phase I ESA.

#### **3.4.4 MDEQ STD**

AKT Peerless contacted Ms. Karen Munro, of the MDEQ/STD, Shiawassee District Office, regarding environmental information related to the subject property. Ms. Munro indicated a STD file did not exist for the subject property.

#### **3.4.5 MDEQ ERD**

AKT Peerless contacted Ms. Rita Monette, of the MDEQ/ERD, Shiawassee District Office, regarding environmental information related to the subject property. Ms. Monette indicated a file did not exist for the subject property.

#### **3.4.6 MDEQ GSD**

AKT Peerless contacted the MDEQ-GSD to review available records regarding geological activities, permits, inspections or violations associated with the subject property. Ms. Vicky Barnard, MDEQ-GSD, Saginaw Bay District Office, indicated there were no documented oil wells located in Section 28 of Township 4 North, Range 2 West, of Ingham County.

#### **3.4.7 MDEQ WMD**

AKT Peerless contacted Ms. Susan Bishop, of the MDEQ/WMD, Shiawassee District Office, regarding environmental information related to the subject property. Ms. Bishop indicated a file did not exist for the subject property.

#### **3.4.8 Radon**

Sampling or analysis for radon was not a part of AKT Peerless' scope of work and, therefore, was not conducted during the assessment. However, the Michigan Department of Public Health's document, *Indoor Radon in Michigan Report to the Governor*, states that in counties where greater than 15% of the homes are estimated by the Michigan Indoor Radon Survey to have screening levels above the USEPA-recommended action level, additional evaluation could be recommended.

The percentage of homes in Ingham County estimated to have a screening level greater than the USEPA-recommended action level of 4 picocuries per liter (pCi/l) is between 15 and 20 %. Therefore, because the subject property has no basement, a radon survey does not appear to be warranted at this time.

#### **3.4.9 Baseline Environmental Assessment**

AKT Peerless reviewed MDEQ's November, 2000 Report of Statewide Baseline Environmental Assessment (BEA) Activity. Based on AKT Peerless' review of this information, no BEA reports pertaining to the subject property have been submitted to the MDEQ.

### **4.0 SITE INSPECTION**

The objective of the site inspection was to identify RECs such as evidence of hazardous materials, oil releases or surface staining, storage tank systems, polychlorinated biphenyls (PCBs) and asbestos sources, as well as other obvious environmental conditions associated with the subject property.

On July 23, 2001, Mr. Bradley C. Clark, of AKT Peerless, conducted a site inspection of the subject property. See Appendix F for AKT Peerless' completed Site Inspection Checklist. The following sections discuss the potential environmental concerns considered during the site inspection.

#### **4.1 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS**

AKT Peerless did not observe evidence of hazardous substance or petroleum product use, storage, or releases at the subject property.

#### **4.2 HAZARDOUS AND NON-HAZARDOUS WASTE**

AKT Peerless did not observe any evidence of hazardous or non-hazardous waste generation, storage, or releases at the subject property during the site inspection.

#### **4.3 UNIDENTIFIED SUBSTANCES**

AKT Peerless did not observe any evidence of unidentified substances on the subject property during the site inspection.

#### 4.4 STORAGE TANK SYSTEMS

AKT Peerless noted the presence of a suspect vent pipe and fill pipe in the northwest portion of the subject building. The suspect vent pipe, located next to a metal support beam, followed the support beam from the floor and continued up into the ceiling. The suspect fill pipe, located next to the suspect vent pipe, protruded out of the floor and was capped by a metal thread cap. It is AKT Peerless' opinion these suspect pipes could potentially be connected to an out-of-service UST. A UST represents the potential for a past release, an existing release, or material threat of a release of hazardous substances and/or petroleum products to the subject property and is a REC in connection with the subject property.

#### 4.5 SUSPECT PCB SOURCES

AKT Peerless inspected the subject property for the presence of liquid-cooled electrical units such as transformers and large capacitors. These types of units may be potential PCB sources. The potential PCB sources and any obvious environmental conditions observed, such as leaks and stains, are summarized in the following table.

Source Description	Source Location	Responsibility	Recognized Environmental Condition
1 pole-mounted transformer	Near the northwestern corner of the subject property.	Lansing Board of Water and Light	None
Fluorescent light ballasts	Throughout the subject property's building	Owner	None

The transformer is the responsibility of Lansing Board of Water and Light. In the event of an incident, Lansing Board of Water and Light policy is to repair damaged or leaking electrical units, which are identified. The transformer appeared to be relatively new and in good condition. No obvious evidence of oil stains, leaks, or spills was identified on or the near the transformer.

Fluorescent light ballasts, manufactured or installed before 1980, may contain PCBs. These ballasts are considered small capacitors under the Toxic Substances Control Act (TSCA). AKT Peerless inspected one ballast and observed a label which indicated there were no PCBs utilized in the lighting ballast. AKT Peerless was unable to inspect remaining fluorescent light ballasts throughout the building because these ballasts were inaccessible. There was, however, no obvious evidence of leaking units noted.

Due to the age of the building, the fluorescent lighting ballasts observed during AKT Peerless' site inspection, with the exception of the one ballast inspected by AKT Peerless, may be PCB-containing. Therefore, upon replacement of the fixtures during future renovations, the ballasts should be evaluated and, if PCB-containing, handled in accordance with applicable regulations.

In AKT Peerless' opinion, these fixtures represent a minimal environmental risk to the subject property.

#### **4.6 SUSPECT ASBESTOS SOURCES**

AKT Peerless noted observable materials (e.g., materials that are readily accessible and visible without dismantling permanent structures, such as walls, floors, and plaster ceilings) that may contain asbestos. The suspect asbestos-containing building material (ACBM) sources noted and any obvious environmental concerns associated with these sources, such as damage or friability, are summarized in the following table.

<b>Material and Location</b>	<b>Quantity</b>	<b>Physical Condition</b>
9" by 9" floor tiles in areas of the building.	Approximately 1500 ft <sup>2</sup>	Fair

As summarized above, suspect asbestos-containing materials observed in the building was limited to floor tiles. In accordance with the scope of this assessment, this material was not sampled and analyzed. Although this material is considered a presumed asbestos containing material (PACM), it is AKT Peerless' opinion that this material represents a minimal environmental risk to the subject property.

The presence of PACM noted in the subject building is not in violation of any applicable federal or state environmental regulations. However, it should be noted that 29 CFR 1910.1001(j) requires owners of buildings constructed before 1981 to inform building occupants that perform housekeeping activities in areas which contain PACM of the presence and location of PACMs. In addition, 40 CFR Part 61 requires that certain ACBMs be removed prior to the demolition or renovation of a building.

The site inspection was not intended to disclose all possible sources of asbestos at the site. Rather, it was designed to assess the presence of the most significant (significant because of one or more of three factors: quantity present, condition, and ease of accessibility) sources of suspect ACBMs.

#### **4.7 SUSPECT WETLAND HABITAT**

AKT Peerless did not observe any obvious evidence of potential wetland habitat on the subject property.

#### **4.8 OTHER POTENTIAL ENVIRONMENTAL CONDITIONS**

AKT Peerless observed two floor drains in the northwest portion of the subject property building. Miscellaneous staining was observed in the area surrounding these floor drains. Due to the unknown origin of this staining, it is AKT Peerless' opinion this area represents the potential for



past release of petroleum products and/or hazardous substances to the subject property's subsurface and is a REC in connection with the subject property.

AKT Peerless also observed a floor pit in the northwest portion of the subject property building. This floor pit was approximately two feet deep and had a pipe protruding from the western side of the pit just below ground level. The floor of the pit was covered with dirt and gravel. AKT Peerless was unable to determine, during the site walkthrough, if this dirt and gravel floor was contained by a cement bottom. Due to the unknown use of this pit, it is AKT Peerless' opinion this area represents the potential for past release of petroleum products and/or hazardous substances to the subject property's subsurface and is a REC in connection with the subject property.

## **5.0 CONCLUSIONS AND RECOMMENDATIONS**

The purpose of AKT Peerless' Phase I ESA was to provide a professional opinion of the RECs associated with the subject property located at 2510 South Cedar Street in Lansing, Michigan. AKT Peerless' scope of work is based on ASTM's "*Standard Practice For Environmental Site Assessments: ESA E-1527*". Further, AKT Peerless' assessment is intended to satisfy due-diligence requirements to qualify for the innocent landowner defense under CERCLA. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this report.

This assessment has revealed no evidence of "Recognized Environmental Conditions" in connection with the Property except the following:

1. As discussed in Section 3.3.6, several adjoining properties, located east of the subject property across South Cedar Street, likely used storage tanks, petroleum products, and/or hazardous chemicals during normal business operations. Due to lack of information regarding these adjoining properties and the current use of one property as a dry cleaning operation (Baryames Dry Cleaners), these properties represent the potential for a past release, an existing release, or a material threat of a release of hazardous substances or petroleum products to the subject property.
2. As discussed in Section 4.4, a suspect vent pipe and fill pipe were located near the northwest corner of the subject property's building. It is AKT Peerless' opinion these suspect pipes could potentially be connected to an out-of-service UST. A UST represents the potential for a past release, existing release, or material threat of a release of hazardous substances and/or petroleum products to the subject property.
3. As discussed in Section 4.8, AKT Peerless observed two floor drains in the northwest portion of the subject property building. Miscellaneous staining was observed in the area surrounding these floor drains. Due to the unknown origin of this staining, it is AKT Peerless' opinion this area represents the potential for past release of petroleum products and/or hazardous substances to the subject property's subsurface.

4. As discussed in Section 4.8, AKT Peerless observed a floor pit in the northwest portion of the subject property building. Due to the unknown use of this pit, it is AKT Peerless' opinion this area represents the potential for past release of petroleum products and/or hazardous substances to the subject property's subsurface.

AKT Peerless recommends a subsurface investigation be conducted at the subject property to evaluate subsurface conditions and assess the potential presence of an UST.

Although not considered "*recognized environmental conditions*", the following other potential environmental concerns were identified.

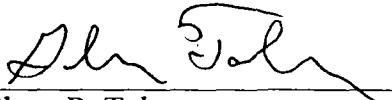
1. As discussed in Section 4.5, AKT Peerless identified florescent light ballast throughout the subject property building. Due to the age of the building, the fluorescent lighting ballasts observed during AKT Peerless' site inspection, with the exception of the one ballast inspected by AKT Peerless, may be PCB-containing. Therefore, upon replacement of the fixtures during future renovations, the ballasts should be evaluated and, if PCB-containing, handled in accordance with applicable regulations. In AKT Peerless' opinion, these fixtures represent a minimal environmental risk to the subject property.
2. As discussed in Section 4.6, AKT Peerless observed 9" by 9" floor tiles in areas of the subject property building. These floor tiles are considered a PACM. The presence of known asbestos or PACM noted in the building is not in violation of any applicable federal or state environmental regulations. However, it should be noted that 29 CFR 1910.1001(j) requires owners of buildings constructed before 1981 to inform building occupants that perform housekeeping activities in areas which contain known or PACM of the presence and location of known ACMs or PACMs. In addition, 40 CFR Part 61 requires that certain ACBMs be removed prior to the demolition or renovation of a building.


## **6.0 LIMITATIONS**

The information and opinions obtained in this report are for the exclusive use of the Lansing BRA. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without the Lansing BRA's written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed-upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and the Lansing BRA.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession. Although AKT Peerless believes the results contained herein are reliable, AKT Peerless cannot warrant or guarantee the information provided is exhaustive or the information provided by third parties, is complete or accurate.

Report submitted by:

  
Glenn R. Tolan  
Project Assistant  
AKT PEERLESS ENVIRONMENTAL SERVICES

  
Bradley C. Clark  
Project Manager  
AKT PEERLESS ENVIRONMENTAL SERVICES

JULY 27, 2001

## FIGURES





© 1999 DeLorme. Street Atlas USA

**AKTPEERLESS**  
environmental services

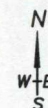
230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48605  
Phone: (989)754-9896 Fax: (989)754-3804

# PROPERTY LOCATION MAP

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s  
DRAWING NUMBER : LOCATION MAP

## LEGEND



DRAWN BY: OGO  
DATE: 07-24-01

FIGURE 1



RESIDENTIAL

COSCARELLI'S  
RESTAURANT

LINCOLN AVENUE



BARYAMES  
(DRY CLEANER)

APARTMENTS

TRANSFORMER

PARKING

SUSPECT VENT AND  
FILL PIPE

FLOOR  
PIT

SD

FD

FD

S. CEDAR STREET

APPLIANCE  
PARTS  
SERVALL CO,

ROBERTS  
WALLPAPER & PAINT

ON THE SPOT  
ENGRAVING

NATIONAL CITY  
BANK

CAP LAB

LEGEND

— = PROPERTY LINE

○<sub>FD</sub> = FLOOR DRAIN

○<sub>SD</sub> = STORM DRAIN

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environmental services

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Phone: (989)754-9896 Fax: (989)754-3804

PROPERTY/SURROUNDING AREA MAP

2510 S. CEDAR  
LANSING, MICHIGAN  
PROJECT NUMBER : 3268s  
DRAWING NUMBER : PM 1

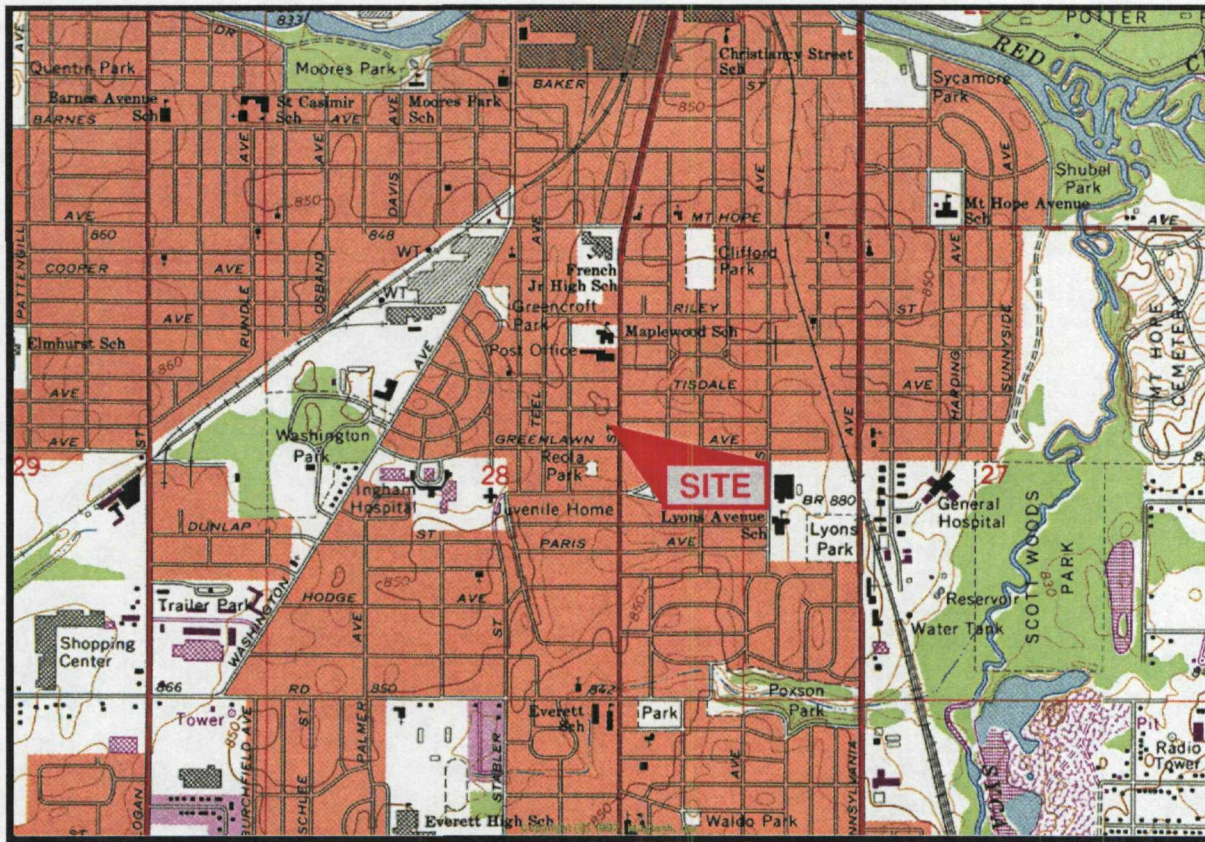
DRAWN BY: OGO  
DATE: 07-24-01

0 25 50  
SCALE: 1" = 50'±

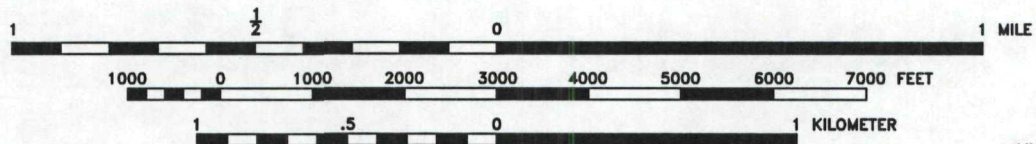
FIGURE 2



LANSING SOUTH QUADRANGLE  
MICHIGAN - INGHAM COUNTY  
7.5 MINUTE SERIES (TOPOGRAPHIC)



T.4 N. - R.2 W.



CONTOUR INTERVAL 10 FEET  
DATUM IS MEAN SEA LEVEL

IMAGE TAKEN FROM 1965 U.S.G.S. TOPOGRAPHIC MAP  
PHOTOREVISED 1973



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TOPOGRAPHIC LOCATION MAP

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s  
DRAWING NUMBER : TOPO 2

DRAWN BY: OGO  
DATE: 07-24-01

FIGURE 3

## APPENDIX A



Equalizer PRD Web

Page 1 of 1

**General Information for Parcel 33-01-01-28-256-082**  
**Assessing Data Current As Of: 14:14 06/21/2001**

**Property Address**  
 2508 S CEDAR ST  
 LANSING, MI 48910

**Owner Information**  
 ELKADRI AHMED & FATIMA  
 7005 WHITEFELD  
 DEARBORN, MI 48127

*.823 Acres*

**General Information For Tax Year 2001**

<b>Property Class:</b>	201	<b>Assessed Value:</b>	\$172,300	<b>Homestead %:</b>	0.000%
<b>School District:</b>	33020	<b>Taxable Value:</b>	\$148,814	<b>Homestead Filed:</b>	OFF

**Land Information**

<b>Acreage:</b>	0.00	<b>Frontage:</b>	0.00 Ft.	<b>Depth:</b>	0.00 Ft.
<b>Zoning Code:</b>	OFF	<b>Mortgage Code:</b>		<b>Renaissance Zone:</b>	NO

**Legal Information**

E 20 FT LOT 66, LOTS 67, 68 & 69, LOT 70 EXC PARTS USED FOR STREET PURPOSES, ALSO COM SE COR LOT 68, TH S 44 FT, W 202 FT, N 44 FT, E TO BEG; CEDARHURST SUB

**Sales**

<b>Sale Date</b>	<b>Sale Price</b>	<b>Instrument</b>	<b>Grantor</b>	<b>Grantee</b>	<b>Terms Of Sale</b>	<b>Liber/Page</b>
06/11/1999	\$271,293	SD	HADDAD TONY & MOON STEVE	ELKADRI AHMED & FATIMA	CASH/CONV-NOT USED	OFF

*06/15/01 325,000*

*CAP-LAB,  
P.L.C.*

3301-23-256-032 2  
 JAMES LIEVENSE INC  
 C/O MFGRS BANK/ATTN: MARCI  
 101 N WASHINGTON SQ  
 LANSING MI 48933

2508 S CEDAR ST. C-330  
 E 20 FT LOT 66, LOTS 67, 68 & 69,  
 LOT 70 EXC PARTS USED FOR STREET  
 PURPOSES, ALSO COM SE COR LOT 68,  
 TH S 44 FT, W 202 FT, N 44 FT, E

TO BEG;  
 CEDARHURST SUB

*Vacant lot*  
 HALL OF FAME BILLIARDS  
 So. CEDAR DRUGS

STREET ADDRESS  
 OF PROPERTY 2508 S. CEDAR ST.  
 2510 S. CEDAR ST.

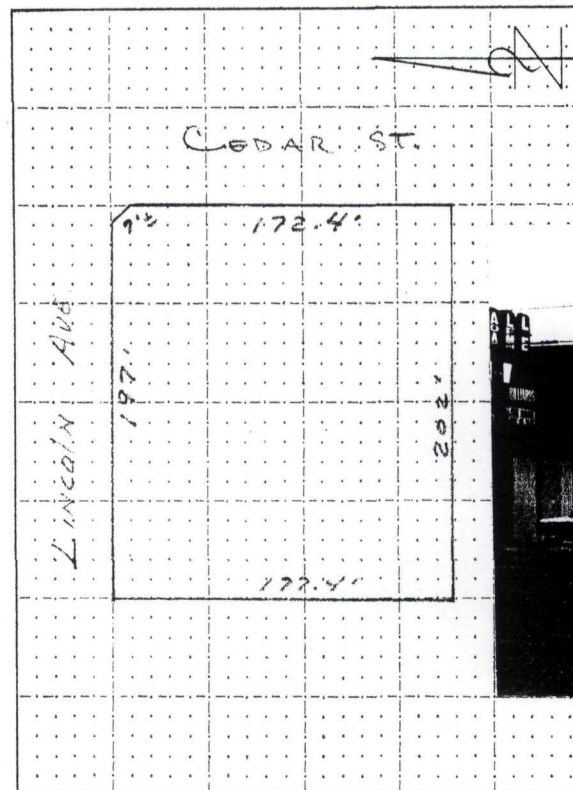
#### LAND ESTIMATE

STREET IMPROVEMENTS					TOPO
<input checked="" type="checkbox"/> SEWER	<input checked="" type="checkbox"/> ELEC.	<input type="checkbox"/> DIRT	<input type="checkbox"/> SIDEWALK	<input checked="" type="checkbox"/> LEVEL	
<input checked="" type="checkbox"/> WATER	<input checked="" type="checkbox"/> BLVD. LIGHT	<input checked="" type="checkbox"/> PAVED			LOW
<input checked="" type="checkbox"/> GAS	<input checked="" type="checkbox"/> CURB	<input type="checkbox"/> GRAVEL			HIGH
FRONTAGE AND DEPTH	DEPTH FACTOR	ADJ. FRONTAGE	CORNER OR MISC. FACTOR	UNIT VALUE	VALUE
177.4' x 206'		35' 8 35"	x	2"	71670
		- 135'			
.82 ACRES 35,822.0'					71,644
BASE VALUE					
DETRACTING INFLUENCE					
FINANCING INFLUENCE					

*Legal 94*

## CITY OF LANSING - ASSESSOR'S OFFICE

DEEDS				
GRANTOR				
GRANTEE				
ADDRESS				
LIB	PG.	DATE	R-S	
GRANTOR				
GRANTEE				
ADDRESS				
LIB	PG.	DATE	R-S	
MISC.				



YEAR	LAND	BUILDING	TOTAL	ASSESSED
1996	78808	173459	252267	126100
1997	78808	182,131	260939	130500
1998	78808	191237	270045	135,000
1999	78808	219922	298730	149,300
1999				104,700
1990	78837	143651	222,488	111,200
1993	78837	165,199	244,036	122,000
1994	78808	165,199	244,007	122,000
1995				122,000

PROPERTY CLASSIFICATION BPI  
 ZONING F-Comm

LAND ESTIMATE  
 STREET IMPROVEMENTS



#### SUMMARY OF BUILDING VALUES

YR. BLT.	DESCRIPTION	APPRAISED VALUE
1941	Billiard Lounge	114,888
1937	DRUG STORE	
	YARD IMPROVEMENTS	3832
		118,720
		130,552

DATE	PERMIT NUMBER	KIND OF BUILDING	VALUE
12-8-70	31243	Inter. office	
10-1-78	5663B	Repair fire damage	8,020
INTERVIEWED			
BY	DATE	ESTIM. BY	DATE
(MGR. OF HALL OF FAME) K.S.	9-19-75	K.S.	7-19-75
M. RICHMOND	3-6-79	M.R.	
		L.P.R.	1-2-79

SIZES	STY.	HGT.	AREA	CUBE	CUBE COST	QUALITY #2	USE: BILLIARD LOUNGE
66' x 126'	1	14'	8316'			CLASS CONST. C	
						MAN. SEC. 43	
					SQ. FT. COST	SEC. DATE Aug 74	
				14.94		BUILDING DATE 1941 eff. REMODELED	COSTS
EXCAV.	✓ NONE						
FND.	CONCRETE	✓ CONC. BLK.	8316' x .53 x 104' 10				= 4584
	COL. FTGS.						
FRAME	✓ ROOF SUPPORTS		8316' x .31 x 110' 70				= 2836
FLOOR	✓ CONCRETE		8316' x .88				= 7318
STRUCT.	STL. JOISTS						
	✓ WD. JOIST	DECIL (OFF)	1300' x 1.91				= 2483
FLOOR	NONE	ASP. TILE					
COVER	HARDWOOD	✓ FIB REST RMS	135' x 41				= 55
	✓ CARPET		7366' x 1.20				= 8839
CLNGS.	✓ NONE	✓ DRI-WALL	2112' x 46				= 972
	PLASTER	✓ ACOUSTICAL	6204' x (.76 + .37)				= 7011
PARTNS.	✓ FRAME	MASONRY	1680' x 1.50				= 2520
PLBG.	3 TOILET	2 LAVATORY	3 @ 300				= 1795
	TUB	SHOWER	2 @ 225				
	1 URINAL	SINK	1 @ 270				
	1 AWH	DISPOSAL	1 @ 175				
HEATING	NONE						
AND	✓ FWA + 1/2		7366' x 2.45 x 91%				= 16,423
COOLING	✓ STORAGE AREA		950' x .36 (FIB SPACE HEATERS)				= 342
ELECT. AND LTG.	✓ FIB TYPICAL RETAIL		6204' x 1.66				= 10,299
			2112' x .93 (#1 STORAGE AREA + PIN BALL AREA)				= 1964
EXT. WALLS	✓ CONC. BLK. 8"	BRICK	238' x 14' x 2.00 (NO OPENINGS SECS, PG 4)				= 6664
	BRICK VEN.	WD. FR.	80' x 14' x 1/2 x 2.00 (COMMON WALL)				= 1120
	✓ STONE FRONT, GLASS		66' x 10' AVE. x 4.79 (#3 quality for stone front.)				= 5691
BSM'T. WALLS	✓ NONE	CONC. BLK.					
	CONCRETE						
ROOF STRUCT.	✓ STL. JOISTS	1/2" DECK	8316' x 2.00				= 16,632
	WD. JOISTS						
	CONCRETE						
	TRUSSES						
ROOF COVER	✓ COMP. B.U./INSULATION		8316' x (.45 + .31)				= 6320
MISC.							

CONDITION	EXCEL.	GOOD	AVE.	FAIR	POOR	COST TOTALS
						103,868
COSTS X ARCHITECT'S FEE AND SUPERVISION X CURRENT COST MULT. X LOCAL MULT. = BUILDING REPLACEMENT VALUE						
103,868	x	1.045 (PLAIN)	x	1.06	x	1.08 = 124,259
BLDG. REPL. VALUE X COST MULT. = REPLACEMENT VALUE X DEPRECIATION FACTOR = APPRAISED VALUE.						
124,259	x	1.000	=	124,259	x	50% x 110% = 68,342

YARD IMPROVEMENTS: 1941	NOTES:
ASPHALT 25,000' x .47 x 75% = 8812 x 109 x 1.05 x 382 = 3832	PREVIOUS APPRAISAL EXEMPTED FLOOR + CEILING FINISH AND PARTITIONS, BECAUSE OF SALES DISPLAY ITEMS.

# CALCULATOR COST FORM

For subscribers using the **MARSHALL VALUATION SERVICE** Calculator Cost Method

## SQUARE FOOT COSTS

1. Subscriber making survey 3301-28-256-081 Date of survey OCT-10-79  
 2. Name of building \_\_\_\_\_ Owner PEDARHURST INC.  
 3. Located at 2508-10 S CEDAR ST SEC 13- OCT/79

	SECTION I	SECTION II	SECTION III	SECTION IV
4. Occupancy	<u>COMM BLDG</u>			
5. Building class and quality	Cl. <u>C</u> Qual. <u>2</u>	Cl. _____ Qual. _____	Cl. _____ Qual. _____	Cl. _____ Qual. _____
6. Exterior wall	<u>PORC BLOCK</u>			
7. No. of stories & height per story	No. <u>1</u> Ht. <u>13'-6"</u> <small>AVE</small>	No. _____ Ht. _____	No. _____ Ht. _____	No. _____ Ht. _____
8. Average floor area	<u>10,076</u>			
9. Average perimeter	<u>428</u>			
10. Age and condition	Age <u>939</u> <small>EFF</small> Cond. <u>AVE</u> <small>GOOD</small>	Age _____ Cond. _____	Age _____ Cond. _____	Age _____ Cond. _____

SECTION I	SECTION II	SECTION III	SECTION IV
<u>20.45</u>			

11. Base Square Foot Cost

### SQUARE FOOT REFINEMENTS

12. Heating, cooling, ventilation.  
 13. Elevator deduction  
 14. Miscellaneous  
 15. Total lines 11 through 14

—			
—			
—			

### HEIGHT AND SIZE REFINEMENTS

16. Number of stories-multiplier  
 17. Height per story-multiplier (see Line 7).  
 18. Floor area-perimeter multiplier (see Lines 8 and 9).  
 19. Combined height and size multiplier (Lines 16 x 17 x 18)

<u>1.000</u>			
<u>1.031</u>			
<u>.937</u>			
<u>.966</u>			

### FINAL CALCULATIONS

20. Refined square foot cost (Line 15 x Line 19)  
 21. Current cost multiplier (Sect. 99 p. 3)  
 22. Local multiplier (Sect. 99 p. 5 and 6)  
 23. Final sq. ft. cost (Line 20 x Line 21 x Line 22)  
 24. Area (Back of this form).  
 25. Line 23 x Line 24.  
 26. Lump sums (Line 32).  
 27. Replacement Cost (Line 25 + Line 26).  
 28. Depreciation % (Sect. 97).  
 29. Depreciation amount (Line 27 x Line 28).  
 30. Depreciated Cost (Line 27 - Line 29)

SECTION I	SECTION II	SECTION III	SECTION IV
<u>1975</u>			
<u>1.17</u>			
<u>1.05</u>			
<u>24.26</u>			
<u>10,076</u>			
<u>244,443</u>			
<u>244,443</u>			
<u>45x105 = 47%</u>			
<u>114,888</u>			

### TOTAL OF ALL SECTIONS

31. Replacement cost 244,443 Depreciated cost 114,888 Insurable value \_\_\_\_\_

See back of this form for drawings and area and insurable value calculations.



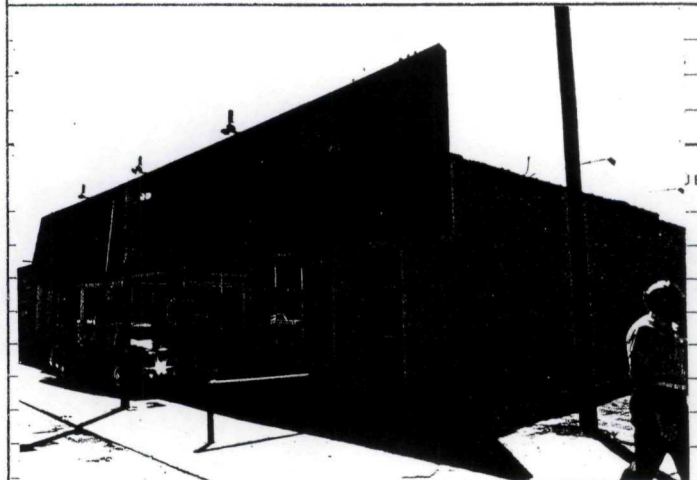
## CITY OF LANSING - ASSESSOR'S OFFICE

DEEDS			
GRANTOR			
GRANTEE			
ADDRESS			
LIB	PG.	DATE	R-S
GRANTOR			
GRANTEE			
ADDRESS			
LIB	PG.	DATE	R-S
MISC.			

[illegible]

PROPERTY CLASSIFICATION
ZONING

LAND ESTIMATE



APPRAISED LAND VALUE

## LAND ESTIMATE



APPRaised LAND VALUE

## SUMMARY OF BUILDING VALUES

[illegible]

DATE	PERMIT NUMBER	KIND OF BUILDING	VALUE
4-9-87	B2195	STORE	9000

INTERVIEWED	BY	DATE	ESTIM. BY	DATE

SIZES	STY.	CURB HGT.	AREA	CUBE	CUBE COST	QUALITY	USE:
22' x 80'	1	12'	1740	21,120		2	DRUGSTORE
						CLASS CONST. C	
						MAN. SEC. 43	
					SQ. FT. COST	SEC. DATE	
					9.87	66	
					(5.13)	BUILDING DATE	1937
							COSTS

EXCAV.			SITE Prep 1760'				
FND.	CONCRETE	CONC. BLK.	1760' x 102" x .36				647
	COL FTGS.						
FRAME							
FLOOR	CONCRETE		1760' x .52				915
STRUCT.	STL JOISTS						
	WD JOIST						
FLOOR	NONE	ASP. TILE	1320' x .28				370
COVER	HARDWOOD	TILE					
CLNGS.	NONE	DRI-WALL					
	PLASTER	ACOUSTICAL	1760' x (.19 + .17)				635
PARTNS.	FRAME	MASONRY					
PLBG.	TOILET	LAVATORY	1 @ 205	1 @ 165			37
	TUB	SHOWER					
	URINAL	SINK					
	JAWH	DISPOSAL	1 @ 130				130
HEATING	NONE	GAS (BURNER)	1 @ 340				340
AND		UNIT 1500					
COOLING							
ELECT. AND LTG.	AVE. THIN		1760 x 1.13				1989
EXT. WALLS	CONC. BLK.	BRICK	(80' + 2252) x 13'4" x 2.40				3965
	BRICK VEN.	WD. FR.	80' x 13'4" x 2.40 x 1/2 (COMMON WALL)				1279
BSMT. WALLS	NONE	CONC. BLK.					
ROOF	CONCRETE						
STRUCT.	STL. JOISTS						
	WD. JOISTS						
	WD. TRUSS		1760 x 96				1690
	CONCRETE						
	TRUSSES						
ROOF COVER	COMP. B.U.		1760 x (23+18)				722
MISC.							

CONDITION	EXCEL.	GOOD	AVE.	FAIR	POOR	COST TOTALS	
						13141	
COSTS X ARCHITECT'S FEE AND SUPERVISION X CURRENT COST MULT. X LOCAL MULT.							BUILDING REPLACEMENT VALUE
13141	x	1.05		x	1.04	x	1.10 = 15,785
BLDG. REPL. VALUE X COST MULT.							REPLACEMENT VALUE X DEPRECIATION FACTOR = APPRAISED VALUE
15785			x	110 %			= 17362 x 526 = 9029

YARD IMPROVEMENTS:	NOTES:

## APPENDIX B





1.) VIEW OF THE EAST SIDE OF THE SUBJECT PROPERTY FROM THE SOUTHEAST



2.) VIEW OF THE SUBJECT PROPERTY FROM THE NORTHEAST

**AKT**PEERLESS  
environmental services

230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48606  
Phone: (989)754-9896 Fax: (989)754-3804

#### PROPERTY PHOTOGRAPHS

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s  
DRAWING NUMBER : PHOTO 1

TAKEN BY: BCC  
DATE: 07-23-01  
DRAWN BY: OGO  
DATE: 07-26-01  
APPROVED BY:  
DATE:





3.) VIEW OF THE WEST SIDE OF THE SUBJECT PROPERTY FROM THE NORTHWEST



4.) VIEW OF THE ADJOINING PROPERTIES (BARYAMES DRY CLEANER/FORMER FILLING STATION, ON THE NORTHEAST CORNER AND FORMER DRY CLEANING OPERATION, ON THE SOUTHEAST CORNERS OF LINCOLN AND S. CEDAR)

**AKTPEERLESS**  
environmental services

230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48606  
Phone: (989)754-9896 Fax: (989)754-3804

PROPERTY PHOTOGRAPHS

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s  
DRAWING NUMBER : PHOTO 2

TAKEN BY: BCC  
DATE: 07-23-01  
DRAWN BY: OGO  
DATE: 07-26-01  
APPROVED BY:  
DATE:





5.) VIEW OF BUILDING INTERIOR FACING SOUTHWEST



6.) VIEW OF BUILDING INTERIOR FACING WEST, DEPICTING AREA OF FLOOR DRAINS AND FLOOR PIT

**AKTPEERLESS**  
environmental services

230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48605  
Phone: (989)754-9896 Fax: (989)754-3804

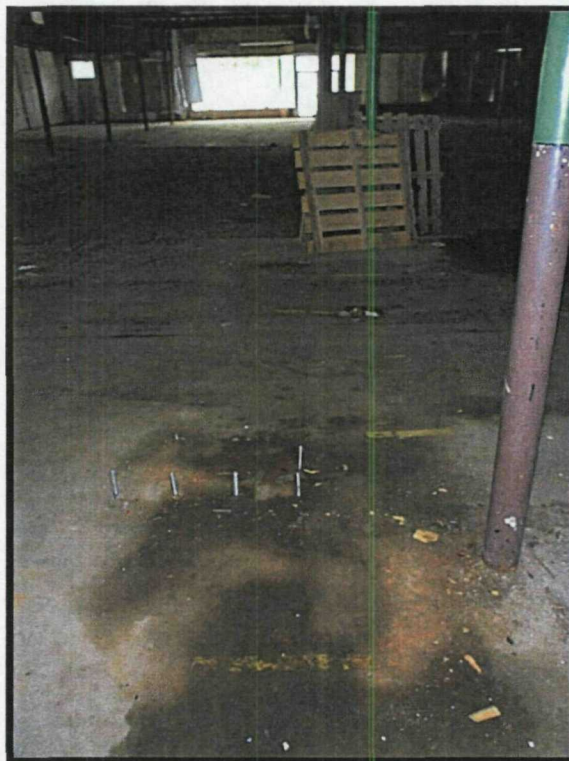
**PROPERTY PHOTOGRAPHS**

2510 S. CEDAR  
LANSING, MICHIGAN

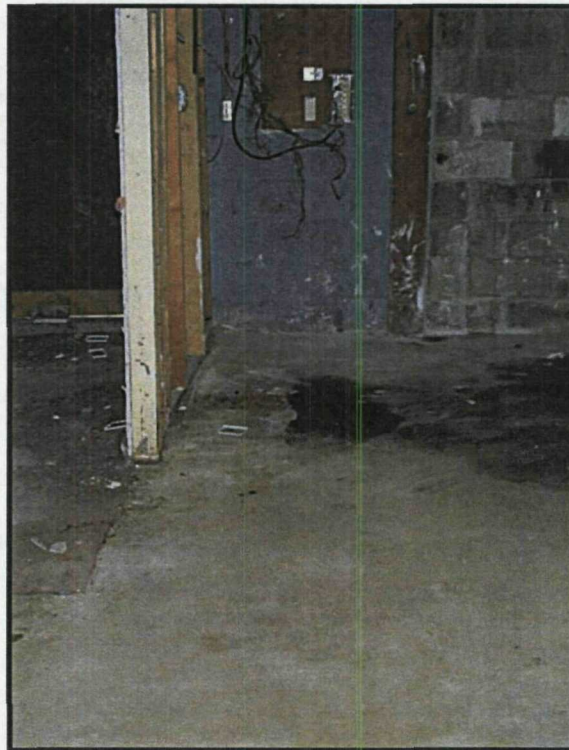
PROJECT NUMBER : 3268s  
DRAWING NUMBER : PHOTO 3

TAKEN BY: BCC  
DATE: 07-23-01  
DRAWN BY: OGO  
DATE: 07-26-01  
APPROVED BY:  
DATE:





7.) VIEW OF FLOOR DRAIN AND FLOOR STAINING, FACING EAST



8.) VIEW OF A SECOND FLOOR DRAIN AND FLOOR STAINING, FACING WEST

**AKTPEERLESS**  
environmental services

230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48606  
Phone: (989)754-9896 Fax: (989)754-3804

**PROPERTY PHOTOGRAPHS**

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s

DRAWING NUMBER : PHOTO 4

TAKEN BY: BCC  
DATE: 07-23-01  
DRAWN BY: OGO  
DATE: 07-26-01  
APPROVED BY:  
DATE:





9.) VIEW OF FLOOR PIT, DRAIN PIPE, AND CLEANOUTS FACING WEST



10.) VIEW OF SUSPECT VENT PIPE AND SUSPECT FILL PIPE FACING NORTH

**AKTPEERLESS**  
environmental services

230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48605  
Phone: (989)754-9896 Fax: (989)754-3804

**PROPERTY PHOTOGRAPHS**

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s

DRAWING NUMBER : PHOTO 5

TAKEN BY: BCC  
DATE: 07-23-01  
DRAWN BY: OGO  
DATE: 07-26-01  
APPROVED BY:  
DATE:

## APPENDIX C





## **The EDR Radius Map with GeoCheck®**

**2508 S. Cedar  
2508 S. Cedar  
Lansing, MI 48910**

**Inquiry Number: 658543.3s**

**July 19, 2001**

## ***The Source For Environmental Risk Management Data***

**3530 Post Road  
Southport, Connecticut 06490**

### **Nationwide Customer Service**

**Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)**

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 <b><u>GEOCHECK ADDENDUM</u></b>	
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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

### TARGET PROPERTY INFORMATION

#### ADDRESS

2508 S. CEDAR  
LANSING, MI 48910

#### COORDINATES

Latitude (North):	42.706200 - 42° 42' 22.3"
Longitude (West):	84.548500 - 84° 32' 54.6"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	700777.8
UTM Y (Meters):	4730889.0

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2442084-F5 LANSING SOUTH, MI
Source:	USGS 7.5 min quad index

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ( "reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

### FEDERAL ASTM STANDARD

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP.....	CERCLIS No Further Remedial Action Planned
CORRACTS.....	Corrective Action Report
RCRIS-LQG.....	Resource Conservation and Recovery Information System
ERNS.....	Emergency Response Notification System

### STATE ASTM STANDARD

SWF/LF.....	Solid Waste Facilities Database
-------------	---------------------------------

### FEDERAL ASTM SUPPLEMENTAL

CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision

## EXECUTIVE SUMMARY

<b>Delisted NPL</b>	National Priority List Deletions
<b>FINDS</b>	Facility Index System/Facility Identification Initiative Program Summary Report
<b>HMIRS</b>	Hazardous Materials Information Reporting System
<b>MLTS</b>	Material Licensing Tracking System
<b>MINES</b>	Mines Master Index File
<b>NPL Liens</b>	Federal Superfund Liens
<b>PADS</b>	PCB Activity Database System
<b>RAATS</b>	RCRA Administrative Action Tracking System
<b>TRIS</b>	Toxic Chemical Release Inventory System
<b>TSCA</b>	Toxic Substances Control Act
<b>FTTS</b>	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

### STATE OR LOCAL ASTM SUPPLEMENTAL

**AST**..... Aboveground Tanks

### EDR PROPRIETARY DATABASES

**Coal Gas**..... Former Manufactured Gas (Coal Gas) Sites

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### FEDERAL ASTM STANDARD

**RCRIS:** The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-TSD list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-TSD site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>OLOFSSON CORP</i></b>	<b><i>2727 LYONS AVE</i></b>	<b><i>1/4 - 1/2ESE</i></b>	<b><i>9</i></b>	<b><i>9</i></b>

## EXECUTIVE SUMMARY

**RCRIS:** The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 2 RCRIS-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>BARYAMES CLEANERS</b>	<b>2423 S CEDAR</b>	<b>0 - 1/8 NE</b>	<b>1</b>	<b>5</b>
<b>BLACK JACK ENTERPRISES LLC</b>	<b>2702 S CEDAR</b>	<b>1/8 - 1/4 S</b>	<b>A3</b>	<b>5</b>

### STATE ASTM STANDARD

**SHWS:** The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Quality's Contaminated Sites List on Diskette With Address.

A review of the SHWS list, as provided by EDR, has revealed that there are 5 SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>2320-2420 S. WASHINGTON AVE</b>	<b>2320-2420 S. WASHINGTON</b>	<b>1/4 - 1/2 WNW</b>	<b>11</b>	<b>13</b>
<b>BAKER ST CONTAMINATION AREA</b>	<b>BAKER ST. ( / WASHINGT</b>	<b>1/2 - 1 NNW</b>	<b>18</b>	<b>20</b>
<b>LINDELL DROP FORGE CO</b>	<b>2830 S LOGAN ST</b>	<b>1/2 - 1 W</b>	<b>20</b>	<b>21</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>LBWL-ECKERT STATION</b>	<b>601 ISLAND AVE</b>	<b>1/2 - 1 NNW</b>	<b>19</b>	<b>20</b>
<b>CITY OF LANSING/O&amp;M DIV COMPLE</b>	<b>601 E SOUTH ST</b>	<b>1/2 - 1 NNE</b>	<b>21</b>	<b>23</b>

**LUST:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 01/12/2001 has revealed that there are 10 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>KEITH GRANGER</b>	<b>2702 S CEDAR ST</b>	<b>1/8 - 1/4 S</b>	<b>A4</b>	<b>6</b>
<b>FOLICK SERVICE STATION</b>	<b>2715 S CEDAR ST</b>	<b>1/8 - 1/4 S</b>	<b>A5</b>	<b>6</b>
<b>LINDYS AUTO SALES</b>	<b>2800 S CEDAR</b>	<b>1/8 - 1/4 S</b>	<b>B6</b>	<b>7</b>
<b>MI DEPT3OF TRANSPORTATION</b>	<b>2827 S CEDAR ST</b>	<b>1/8 - 1/4 S</b>	<b>B7</b>	<b>8</b>
<b>OLOFSSON CORP</b>	<b>2727 LYONS AVE</b>	<b>1/4 - 1/2 ESE</b>	<b>9</b>	<b>9</b>
<b>MICHIGAN CAPITAL MEDICAL CTR G</b>	<b>401 W GREENLAWN</b>	<b>1/4 - 1/2 WSW</b>	<b>13</b>	<b>14</b>
<b>LANSING HQ ARMORY</b>	<b>2500 WASHINGTON AVE</b>	<b>1/4 - 1/2 W</b>	<b>14</b>	<b>15</b>
<b>SHELL OIL CO</b>	<b>1826 S CEDAR MT HOPE</b>	<b>1/4 - 1/2 N</b>	<b>15</b>	<b>16</b>
<b>TOTAL #8787</b>	<b>3145 S CEDAR</b>	<b>1/4 - 1/2 S</b>	<b>16</b>	<b>17</b>
<b>ATMOSPHERE ANNEALING INC</b>	<b>209 W MT HOPE ST</b>	<b>1/4 - 1/2 NW</b>	<b>17</b>	<b>18</b>



## EXECUTIVE SUMMARY

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Michigan UST database.

A review of the UST list, as provided by EDR, and dated 01/02/2001 has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BLUE CARE NETWORK-HEALTH CENTR	2316 S CEDAR ST	0 - 1/8 N	2	5
<b>KEITH GRANGER</b>	<b>2702 S CEDAR ST</b>	<b>1/8 - 1/4 S</b>	<b>A4</b>	<b>6</b>
<b>FOLICK SERVICE STATION</b>	<b>2715 S CEDAR ST</b>	<b>1/8 - 1/4 S</b>	<b>A5</b>	<b>6</b>
<b>LINDYS AUTO SALES</b>	<b>2800 S CEDAR</b>	<b>1/8 - 1/4 S</b>	<b>B6</b>	<b>7</b>
<b>MI DEPT3OF TRANSPORTATION</b>	<b>2827 S CEDAR ST</b>	<b>1/8 - 1/4 S</b>	<b>B7</b>	<b>8</b>
DOBYS SERVICE	2901 S CEDAR	1/8 - 1/4 S	8	8

**BEA:** Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 04/30/2001 has revealed that there are 3 BEA sites within approximately 0.5 miles of the target property.

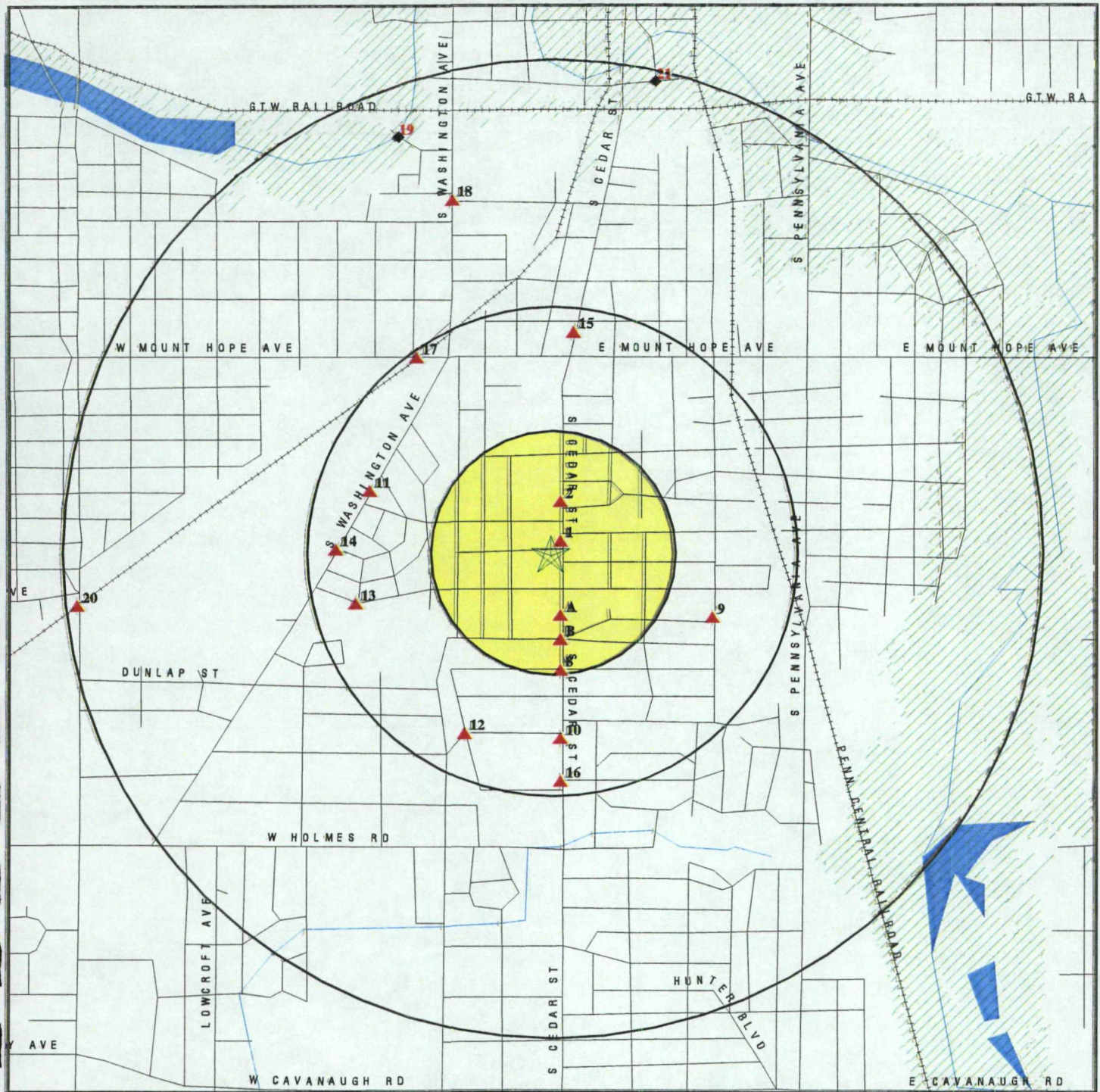
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
JARRAD'S AUTO SALES	3104 S. CEDAR ST.	1/4 - 1/2 S	10	13
<b>2320-2420 S. WASHINGTON AVE</b>	<b>2320-2420 S. WASHINGTON</b>	<b>1/4 - 1/2 WNW</b>	<b>11</b>	<b>13</b>
123 E. HODGE AVENUE	123 E. HODGE AVE.	1/4 - 1/2 SSW	12	14

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
GRAND TRUCK AND WESTERN TRACKS CEDAR AVE	ERNS
6272 S. LOGAN ST.	BEA
DIAMOND REO SITE, LOT 6	BEA
3406 S. MARTIN LUTHER KING JR. BLVD.	BEA
5101 S. WAVERLY DRIVE	BEA
VACANT PARCEL ON M-43	BEA
VACANT PARCEL ON M-43	BEA
E. SIDE OF S. CEDAR ST.	BEA

# OVERVIEW MAP - 658543.3s - Peerless Environmental Serv.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- National Priority List Sites
- Landfill Sites

- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone

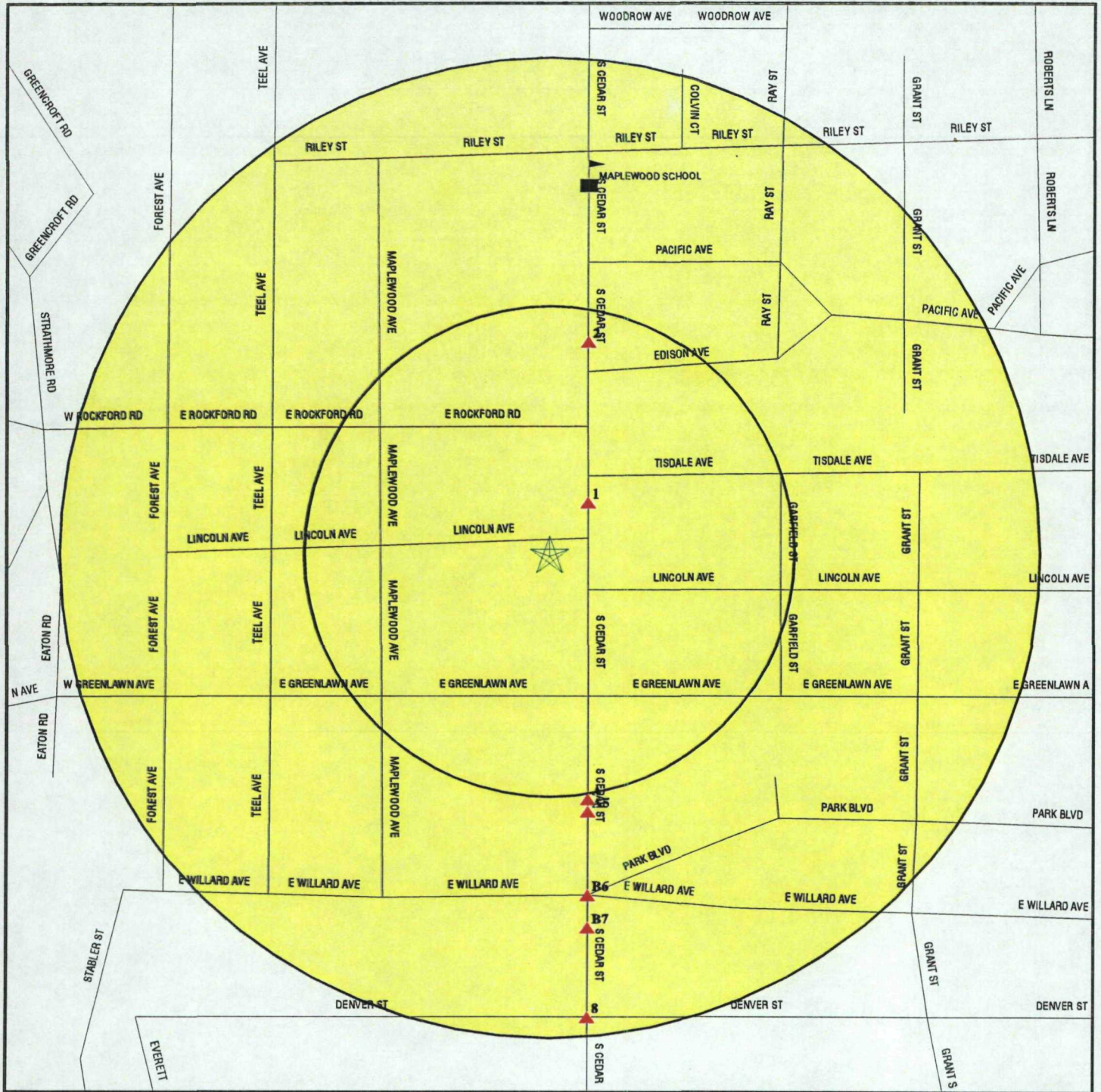
0 1/4 1/2 1 Miles

TARGET PROPERTY: 2508 S. Cedar  
 ADDRESS: 2508 S. Cedar  
 CITY/STATE/ZIP: Lansing MI 48910  
 LAT/LONG: 42.7062 / 84.5485

CUSTOMER: Peerless Environmental Serv.  
 CONTACT: Marie Lamia  
 INQUIRY #: 658543.3s  
 DATE: July 19, 2001 5:26 pm



# DETAIL MAP - 658543.3s - Peerless Environmental Serv.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites

- Power transmission lines
- Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone

TARGET PROPERTY: 2508 S. Cedar  
 ADDRESS: 2508 S. Cedar  
 CITY/STATE/ZIP: Lansing MI 48910  
 LAT/LONG: 42.7062 / 84.5485

CUSTOMER: Peerless Environmental Serv.  
 CONTACT: Marie Lamia  
 INQUIRY #: 658543.3s  
 DATE: July 19, 2001 5:27 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL ASTM STANDARD</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	1	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	1	NR	NR	NR	2
ERNS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE ASTM STANDARD</u></b>								
State Haz. Waste		1.000	0	0	1	4	NR	5
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	4	6	NR	NR	10
UST		0.250	1	5	NR	NR	NR	6
BEA		0.500	0	0	3	NR	NR	3
<b><u>FEDERAL ASTM SUPPLEMENTAL</u></b>								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE OR LOCAL ASTM SUPPLEMENTAL</u></b>								
AST		TP	NR	NR	NR	NR	NR	0
<b><u>EDR PROPRIETARY DATABASES</u></b>								
Coal Gas		1.000	0	0	0	0	NR	0
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

\* Sites may be listed in more than one database



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number  
EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1  
NE  
< 1/8  
172  
Higher

**BARYAMES CLEANERS**  
**2423 S CEDAR**  
**LANSING, MI 48910**

RCRIS-SQG 1000441109  
FINDS MID981534605

RCRIS:

Owner: BARYAMES CLEANERS INC  
(312) 555-1212

Contact: ART BARYAMES  
(517) 484-8900

Record Date: 08/11/1986

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AIRS Facility System (AIRS/AFS)

RCRIS

2  
North  
< 1/8  
574  
Higher

**BLUE CARE NETWORK-HEALTH CENTRAL**  
**2316 S CEDAR ST**  
**LANSING, MI 48910**

UST U001147939  
N/A

UST:

Facility ID: 0036504

Tank ID: 1

Owner: BLUE CROSS BLUE SHIELD OF MICH

Owner Phone: (313) 350-5611

Owner Address: 600 E LAFAYETTE  
DETROIT, MI

Product: Used Oil

Capacity: 560

Tank Status: Removed from Ground

A3  
South  
1/8-1/4  
674  
Higher

**BLACK JACK ENTERPRISES LLC**  
**2702 S CEDAR**  
**LANSING, MI 48910**  
  
Site 1 of 3 in cluster A

RCRIS-SQG 1000988561  
FINDS MI0001017920

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

BLACK JACK ENTERPRISES LLC (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000988561

RCRIS:

Owner: BRUCE NYEHOLT  
(517) 694-3440

Contact: BRUCE NYEHOLT  
(517) 694-3440

Record Date: 04/13/1998

Classification: Not reported

Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:  
RCRIS

A4  
South  
1/8-1/4  
674  
Higher

KEITH GRANGER  
2702 S CEDAR ST  
LANSING, MI 48910

UST U001148542  
LUST N/A

Site 2 of 3 in cluster A

LUST:

Facility ID: 0-037177  
Facility Status: CLOSED

UST:

Facility ID: 0037177  
Tank ID: 1  
Owner: MR. KEITH GRANGER  
Owner Address: 3535 WOOD RD  
LANSING, MI  
Product: UNK  
Capacity: 5,000  
Tank Status: Removed from Ground

Owner Phone: (517) 371-9727

Facility ID: 0037177  
Tank ID: 2  
Owner: MR. KEITH GRANGER  
Owner Address: 3535 WOOD RD  
LANSING, MI  
Product: Diesel  
Capacity: 1,000  
Tank Status: Removed from Ground

Owner Phone: (517) 371-9727

A5  
South  
1/8-1/4  
707  
Higher

FOLLOCK SERVICE STATION  
2715 S CEDAR ST  
LANSING, MI 49201

UST U000254931  
LUST N/A

Site 3 of 3 in cluster A

LUST:

Facility ID: 0-032983  
Facility Status: OPEN

UST:

Facility ID: 0032983  
Tank ID: 1  
Owner: MI DEPT OF TRANS

Owner Phone: (517) 784-7172

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

FOLLOCK SERVICE STATION (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U000254931

Owner Address: 301 E LOUIS GLICK HWY  
JACKSON, MI  
Product: Diesel  
Capacity: 500  
Tank Status: Removed from Ground

Facility ID: 0032983  
Tank ID: 2  
Owner: MI DEPT OF TRANS  
Owner Address: 301 E LOUIS GLICK HWY  
JACKSON, MI  
Product: Diesel  
Capacity: 500  
Tank Status: Removed from Ground

Owner Phone: (517) 784-7172

B6  
South  
1/8-1/4  
934  
Higher

LINDYS AUTO SALES  
2800 S CEDAR  
LANSING, MI 48910

UST U002301428  
LUST N/A

Site 1 of 2 in cluster B

LUST:

Facility ID: 0-035554  
Facility Status: OPEN

UST:

Facility ID: 0035554  
Tank ID: 1  
Owner: BASEL PROP  
Owner Address: PO BOX 80884  
LANSING, MI  
Product: Gasoline  
Capacity: 6,000  
Tank Status: Removed from Ground

Owner Phone: (517) 886-0001

Facility ID: 0035554  
Tank ID: 2  
Owner: BASEL PROP  
Owner Address: PO BOX 80884  
LANSING, MI  
Product: Gasoline  
Capacity: 6,000  
Tank Status: Closed in Ground

Owner Phone: (517) 886-0001

Facility ID: 0035554  
Tank ID: 3  
Owner: BASEL PROP  
Owner Address: PO BOX 80884  
LANSING, MI  
Product: Gasoline  
Capacity: 6,000  
Tank Status: Closed in Ground

Owner Phone: (517) 886-0001

Facility ID: 0035554  
Tank ID: 4  
Owner: BASEL PROP  
Owner Address: PO BOX 80884  
LANSING, MI  
Product: Gasoline

Owner Phone: (517) 886-0001

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

LINDYS AUTO SALES (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U002301428

Capacity: 6,000  
Tank Status: Removed from Ground

B7  
South  
1/8-1/4  
1023  
Higher

MI DEPT30F TRANSPORTATION  
2827 S CEDAR ST  
LANSING, MI 48910

UST U000254946  
LUST N/A

Site 2 of 2 in cluster B

LUST:

Facility ID: 0-033921  
Facility Status: OPEN

UST:

Facility ID: 0033921  
Tank ID: 1  
Owner: MI DEPT OF TRANS  
Owner Address: 301 E LOUIS GLICK HWY  
JACKSON, MI  
Product: Gasoline  
Capacity: 1,000  
Tank Status: Removed from Ground

Owner Phone: (517) 784-7172

Facility ID: 0033921  
Tank ID: 2  
Owner: MI DEPT OF TRANS  
Owner Address: 301 E LOUIS GLICK HWY  
JACKSON, MI  
Product: EMPTY  
Capacity: 1,000  
Tank Status: Removed from Ground

Owner Phone: (517) 784-7172

8  
South  
1/8-1/4  
1267  
Higher

DOBY'S SERVICE  
2901 S CEDAR  
LANSING, MI 48910

UST U000254949  
N/A

UST:

Facility ID: 0013433  
Tank ID: 1  
Owner: DOBY'S SERV  
Owner Address: 2901 S CEDAR  
LANSING, MI  
Product: Gasoline  
Capacity: UNK  
Tank Status: Removed from Ground

Owner Phone: (517) 882-6139

Facility ID: 0013433  
Tank ID: 2  
Owner: DOBY'S SERV  
Owner Address: 2901 S CEDAR  
LANSING, MI  
Product: Gasoline  
Capacity: UNK  
Tank Status: Removed from Ground

Owner Phone: (517) 882-6139

Facility ID: 0013433  
Tank ID: 3

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

DOBY'S SERVICE (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U000254949

Owner: DOBY'S SERV  
Owner Address: 2901 S CEDAR  
LANSING, MI  
Product: Used Oil  
Capacity: 500  
Tank Status: Removed from Ground

Owner Phone: (517) 882-6139

9  
ESE  
1/4-1/2  
1877  
Higher

OLOFSSON CORP  
2727 LYONS AVE  
LANSING, MI 48910

RCRIS-SQG 1000230676  
FINDS MID005378476  
RCRIS-TSD  
FTTS  
UST  
LUST

FTTS:

Region: 5  
Inspected Date: 06/15/1994  
Insp Number: 06/15/1994  
Violation occurred: No  
Inspector: RUBIN  
Investigation Type: EPCRA, Enforcement, SEE Conducted  
Facility Function: Manufacturer  
Investig Reason: Neutral Scheme, Region  
Legislation Code: EPCRA

RCRIS:

Owner: OLOFSSON CORP  
(312) 555-1212  
Contact: G SCHIKORRA  
(517) 393-4700  
Record Date: 08/01/1995  
Classification: Small Quantity Generator, TSDF  
Used Oil Recyc: No

TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	06/05/1989
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/23/1989
Actual Date Achieved Compliance:	08/01/1989
Enforcement Action:	Written Informal
Enforcement Action Date:	06/03/1989
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	06/05/1989
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/23/1989
Actual Date Achieved Compliance:	08/01/1989
Enforcement Action:	Written Informal
Enforcement Action Date:	06/03/1989
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OLOFSSON CORP (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000230676

Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	06/05/1989
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	06/23/1989
Actual Date Achieved Compliance:	08/01/1989
Enforcement Action:	Written Informal
Enforcement Action Date:	06/03/1989
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Financial Responsibility Requirements
Date Violation Determined:	07/31/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/04/1990
Actual Date Achieved Compliance:	10/15/1990
Enforcement Action:	Written Informal
Enforcement Action Date:	08/15/1990
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	07/31/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/04/1990
Actual Date Achieved Compliance:	10/10/1990
Enforcement Action:	Written Informal
Enforcement Action Date:	08/15/1990
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-Land Ban Requirements
Date Violation Determined:	07/31/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/04/1990
Actual Date Achieved Compliance:	10/10/1990
Enforcement Action:	Written Informal
Enforcement Action Date:	08/15/1990
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	07/31/1990
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/04/1990
Actual Date Achieved Compliance:	10/10/1990
Enforcement Action:	Written Informal
Enforcement Action Date:	08/15/1990
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OLOFSSON CORP (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000230676

Date Violation Determined:	08/09/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/15/1991
Actual Date Achieved Compliance:	12/17/1991
Enforcement Action:	Written Informal
Enforcement Action Date:	08/29/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Financial Responsibility Requirements
Date Violation Determined:	09/18/1991
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	11/30/1991
Actual Date Achieved Compliance:	04/15/1992
Enforcement Action:	Written Informal
Enforcement Action Date:	09/18/1991
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/28/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/15/1992
Actual Date Achieved Compliance:	01/25/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	08/28/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Other Requirements
Date Violation Determined:	08/28/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/15/1992
Actual Date Achieved Compliance:	01/25/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	08/28/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-Land Ban Requirements
Date Violation Determined:	08/28/1992
Priority of Violation:	Low
Schedule Date to Achieve Compliance:	09/15/1992
Actual Date Achieved Compliance:	01/25/1993
Enforcement Action:	Written Informal
Enforcement Action Date:	08/28/1992
Proposed Monetary Penalty:	Not reported
Final Monetary Penalty:	Not reported
Regulation Violated:	Not reported
Area of Violation:	Generator-All Requirements
Date Violation Determined:	12/09/1993
Priority of Violation:	Low

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OLOFSSON CORP (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000230676

Schedule Date to Achieve Compliance: 01/28/1994  
Actual Date Achieved Compliance: Not reported  
  
Enforcement Action: Written Informal  
Enforcement Action Date: 12/22/1993  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
  
Regulation Violated: Not reported  
Area of Violation: TSD-Financial Responsibility Requirements  
Date Violation Determined: 12/09/1993  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 01/28/1994  
Actual Date Achieved Compliance: Not reported  
  
Enforcement Action: Written Informal  
Enforcement Action Date: 12/22/1993  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported  
  
Regulation Violated: Not reported  
Area of Violation: TSD-Financial Responsibility Requirements  
Date Violation Determined: 12/22/1993  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 01/28/1994  
Actual Date Achieved Compliance: Not reported  
  
Enforcement Action: Written Informal  
Enforcement Action Date: 12/22/1993  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

There are 15 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	
	TSD-Financial Responsibility Requirements	
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	01/25/1993
	TSD-Other Requirements	01/25/1993
	TSD-Land Ban Requirements	01/25/1993
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	04/15/1992
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	12/17/1991
Financial Record Review (FRR)	TSD-Financial Responsibility Requirements	10/15/1990
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	10/10/1990
	Generator-Land Ban Requirements	10/10/1990
	TSD-Land Ban Requirements	10/10/1990
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	08/01/1989
	Generator-Land Ban Requirements	08/01/1989
	TSD-Land Ban Requirements	08/01/1989

FINDS:

Other Pertinent Environmental Activity Identified at Site:  
National Compliance Database (NCDB)  
Permit Compliance System (PCS)  
RCRIS

LUST:

Facility ID: 0-021065  
Facility Status: CLOSED

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

OLOFSSON CORP (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000230676

UST:

Facility ID: 0021065  
Tank ID: 1  
Owner: OLOFSSON CORP  
Owner Address: 2727 LYONS AVE  
LANSING, MI  
Product: Used Oil  
Capacity: 10,000  
Tank Status: Removed from Ground

Owner Phone: (517) 393-4700

Facility ID: 0021065  
Tank ID: 2  
Owner: OLOFSSON CORP  
Owner Address: 2727 LYONS AVE  
LANSING, MI  
Product: Used Oil  
Capacity: 4,000  
Tank Status: Removed from Ground

Owner Phone: (517) 393-4700

10  
South  
1/4-1/2  
2005  
Higher

JARRAD'S AUTO SALES  
3104 S. CEDAR ST.  
LANSING, MI

BEA S104909640  
N/A

BEA:

Petition Disclosure: 1  
BEA Number: 34  
District: Shiawassee  
Date Received: 04/01/1996  
Submitter Name: 3104 S. Cedar LLC  
Petition Determination: Affirmed  
Category: No Hazardous Substance(s)  
Determination 20107A: Pending  
Reviewer: temppm  
Division Assigned: Storage Tank Division

11  
WNW  
1/4-1/2  
2063  
Higher

2320-2420 S. WASHINGTON AVE  
2320-2420 S. WASHINGTON AVE  
LANSING, MI

SHWS S103595396  
BEA N/A

SHWS:

Facility ID: 330516  
Facility Status: No Actions Taken  
Source: Unknown  
Pollutant(s): Ba Cu Zn Cr  
SAM Score: 28  
SAM Score Date: 9/7/97 0:00:00  
Township: 04N  
Range: 02W  
Section: 28  
Quarter: A  
Quarter/Quarter: B  
Change: New addition to list (BEA #41)  
Change Date: 9/10/97 0:00:00  
County Code: 33

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

2320-2420 S. WASHINGTON AVE (Continued)

EDR ID Number  
EPA ID Number

Database(s)

S103595396

BEA:

Petition Disclosure: 1  
BEA Number: 41  
District: Shiawassee  
Date Received: 06/05/1996  
Submitter Name: Columbia/MI Capital Healthcare System  
Petition Determination: Affirmed  
Category: No Hazardous Substance(s)  
Determination 20107A: Affirmed  
Reviewer: temppm  
Division Assigned: Environmental Response Division

12  
SSW  
1/4-1/2  
2158  
Higher

123 E. HODGE AVENUE  
123 E. HODGE AVE.  
LANSING, MI

BEA S104911358  
N/A

BEA:

Petition Disclosure: 1  
BEA Number: 440  
District: Shiawassee  
Date Received: 04/18/2000  
Submitter Name: George E. Forest  
Petition Determination: Not reported  
Category: No Hazardous Substance(s)  
Determination 20107A: Pending  
Reviewer: temppm  
Division Assigned: OTHER

13  
WSW  
1/4-1/2  
2166  
Higher

MICHIGAN CAPITAL MEDICAL CTR GREENLAWN  
401 W GREENLAWN  
LANSING, MI 48910

RCRIS-SQG 1000239290  
FINDS MID069836047  
LUST

RCRIS:

Owner: MICH CAPITAL MEDICAL CENTERS  
(517) 372-3490  
Contact: JOANNE GAHAN  
(517) 374-2408  
Record Date: 08/02/1995  
Classification: Small Quantity Generator  
Used Oil Recyc: No  
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:  
AIRS Facility System (AIRS/AFS)  
National Compliance Database (NCDB)  
RCRIS

LUST:

Facility ID: 0-014635  
Facility Status: CLOSED

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

14  
West  
1/4-1/2  
2313  
Higher

LANSING HQ ARMORY  
2500 WASHINGTON AVE  
LANSING, MI 48913

RCRIS-SQG 1000155656  
FINDS MID981948920  
UST  
LUST

RCRIS:

Owner: MI DEPT OF MILITARY AFFAIRS  
(517) 483-5646

Contact: ALAN LEBIODA  
(517) 483-5807

Record Date: 12/15/1986  
Classification: Small Quantity Generator  
Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:  
RCRIS

LUST:

Facility ID: 0-009772  
Facility Status: CLOSED

UST:

Facility ID: 0009772  
Tank ID: DMA127  
Owner: MICH DEPT OF MILITARY AFFAIRS  
Owner Address: 2500 S WASHINGTON  
LANSING, MI  
Product: Diesel  
Capacity: 10,000  
Tank Status: Currently in Use

Owner Phone: (517) 483-5627

Facility ID: 0009772  
Tank ID: DMA144  
Owner: MICH DEPT OF MILITARY AFFAIRS  
Owner Address: 2500 S WASHINGTON  
LANSING, MI  
Product: Gasoline  
Capacity: 2,000  
Tank Status: Currently in Use

Owner Phone: (517) 483-5627

Facility ID: 0009772  
Tank ID: DMA219  
Owner: MICH DEPT OF MILITARY AFFAIRS  
Owner Address: 2500 S WASHINGTON  
LANSING, MI  
Product: Diesel  
Capacity: 2,000  
Tank Status: Removed from Ground

Owner Phone: (517) 483-5627

Facility ID: 0009772  
Tank ID: DMA305  
Owner: MICH DEPT OF MILITARY AFFAIRS  
Owner Address: 2500 S WASHINGTON  
LANSING, MI  
Product: Used Oil

Owner Phone: (517) 483-5627



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

LANSING HQ ARMORY (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000155656

Capacity: 2,000  
Tank Status: Removed from Ground

15  
North  
1/4-1/2  
2393  
Higher

SHELL OIL CO  
1826 S CEDAR MT HOPE  
LANSING, MI 48910

RCRIS-SQG 1000465352  
FINDS MID985599851  
UST  
LUST

RCRIS:

Owner: EQUILON ENTERPRISES LLC  
(713) 241-2258

Contact: ANGELA FARACI  
(313) 932-2358

Record Date: 12/03/1990  
Classification: Small Quantity Generator  
Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:  
RCRIS

LUST:

Facility ID: 0-010521  
Facility Status: OPEN

UST:

Facility ID: 0010521  
Tank ID: 1  
Owner: BLODGETT OIL CO  
Owner Address: PO BOX 39  
MT PLEASANT, MI  
Product: Gasoline  
Capacity: 10,000  
Tank Status: Currently in Use

Owner Phone: (517) 773-3878

Facility ID: 0010521  
Tank ID: 2  
Owner: BLODGETT OIL CO  
Owner Address: PO BOX 39  
MT PLEASANT, MI  
Product: Gasoline  
Capacity: 8,000  
Tank Status: Currently in Use

Owner Phone: (517) 773-3878

Facility ID: 0010521  
Tank ID: 3  
Owner: BLODGETT OIL CO  
Owner Address: PO BOX 39  
MT PLEASANT, MI  
Product: Gasoline  
Capacity: 8,000  
Tank Status: Currently in Use

Owner Phone: (517) 773-3878

Facility ID: 0010521  
Tank ID: 4  
Owner: BLODGETT OIL CO

Owner Phone: (517) 773-3878

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL CO (Continued)**

**1000465352**

Owner Address: PO BOX 39  
MT PLEASANT, MI  
Product: Hazardous  
Capacity: 550  
Tank Status: Removed from Ground

Facility ID: 0010521  
Tank ID: 5  
Owner: BLODGETT OIL CO  
Owner Address: PO BOX 39  
MT PLEASANT, MI  
Product: Gasoline  
Capacity: 20,000  
Tank Status: Currently in Use

Owner Phone: (517) 773-3878

16  
South  
1/4-1/2  
2468  
Higher

**TOTAL #8787  
3145 S CEDAR  
LANSING, MI 48910**

**UST U002301435  
LUST N/A**

**LUST:**

Facility ID: 0-009424  
Facility Status: OPEN

**UST:**

Facility ID: 0009424  
Tank ID: 1  
Owner: SPEEDWAY SUPERAMERICA LLC  
Owner Address: PO BOX 1500  
SPRINGFIELD, OH  
Product: Gasoline  
Capacity: 10,000  
Tank Status: Removed from Ground

Owner Phone: (937) 864-3000

Facility ID: 0009424  
Tank ID: 2  
Owner: SPEEDWAY SUPERAMERICA LLC  
Owner Address: PO BOX 1500  
SPRINGFIELD, OH  
Product: Gasoline  
Capacity: 10,000  
Tank Status: Removed from Ground

Owner Phone: (937) 864-3000

Facility ID: 0009424  
Tank ID: 3  
Owner: SPEEDWAY SUPERAMERICA LLC  
Owner Address: PO BOX 1500  
SPRINGFIELD, OH  
Product: Gasoline  
Capacity: 10,000  
Tank Status: Removed from Ground

Owner Phone: (937) 864-3000

Facility ID: 0009424  
Tank ID: 4  
Owner: SPEEDWAY SUPERAMERICA LLC  
Owner Address: PO BOX 1500  
SPRINGFIELD, OH  
Product: Gasoline

Owner Phone: (937) 864-3000

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

TOTAL #8787 (Continued)

EDR ID Number  
EPA ID Number

Database(s)

U002301435

Capacity: 6,000  
Tank Status: Removed from Ground

17  
NW  
1/4-1/2  
2560  
Higher

ATMOSPHERE ANNEALING INC  
209 W MT HOPE ST  
LANSING, MI 48910

FINDS 1000342399  
RCRIS-LQG MID005373246  
UST  
LUST

RCRIS:

Owner: MAXCO INC  
(517) 321-3130

Contact: STEVEN HECTOR  
(517) 485-5090

Record Date: 10/25/1993

Classification: Large Quantity Generator, Small Quantity Generator

Used Oil Recyc: No

Violation Status: Violations exist

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 09/21/1993  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 10/11/1993  
Actual Date Achieved Compliance: 02/01/1994

Enforcement Action: Written Informal  
Enforcement Action Date: 09/21/1993  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 10/30/1998  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 11/26/1998  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal  
Enforcement Action Date: 10/30/1998  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Regulation Violated: Not reported  
Area of Violation: Generator-All Requirements  
Date Violation Determined: 10/30/1998  
Priority of Violation: Low  
Schedule Date to Achieve Compliance: 11/26/1998  
Actual Date Achieved Compliance: Not reported

Enforcement Action: Written Informal  
Enforcement Action Date: 10/30/1998  
Proposed Monetary Penalty: Not reported  
Final Monetary Penalty: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

ATMOSPHERE ANNEALING INC (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000342399

There are 3 violation record(s) reported at this site:

Evaluation  
Compliance Evaluation Inspection (CEI)

Area of Violation  
Generator-All Requirements  
Generator-All Requirements  
Generator-All Requirements

Date of  
Compliance

Compliance Evaluation Inspection (CEI)

02/01/1994

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AIRS Facility System (AIRS/AFS)  
National Compliance Database (NCDB)  
RCRIS  
TRIS

LUST:

Facility ID: 0-019851  
Facility Status: CLOSED

UST:

Facility ID: 0019851  
Tank ID: 1  
Owner: ATMOSPHERE ANNEALING INC  
Owner Address: 1801 BASSETT  
LANSING, MI  
Product: QUENCH OIL  
Capacity: 6,000  
Tank Status: Removed from Ground

Owner Phone: (517) 485-5090

Facility ID: 0019851  
Tank ID: 2  
Owner: ATMOSPHERE ANNEALING INC  
Owner Address: 1801 BASSETT  
LANSING, MI  
Product: QUENCH OIL  
Capacity: 6,000  
Tank Status: Removed from Ground

Owner Phone: (517) 485-5090

Facility ID: 0019851  
Tank ID: 3  
Owner: ATMOSPHERE ANNEALING INC  
Owner Address: 1801 BASSETT  
LANSING, MI  
Product: QUENCH OIL  
Capacity: 6,000  
Tank Status: Removed from Ground

Owner Phone: (517) 485-5090

Facility ID: 0019851  
Tank ID: 4  
Owner: ATMOSPHERE ANNEALING INC  
Owner Address: 1801 BASSETT  
LANSING, MI  
Product: Diesel  
Capacity: 2,000  
Tank Status: Removed from Ground

Owner Phone: (517) 485-5090

Facility ID: 0019851  
Tank ID: 5

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

ATMOSPHERE ANNEALING INC (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000342399

Owner: ATMOSPHERE ANNEALING INC Owner Phone: (517) 485-5090  
Owner Address: 1801 BASSETT  
LANSING, MI  
Product: Kerosene  
Capacity: 2,000  
Tank Status: Removed from Ground

18  
NNW  
1/2-1  
3934  
Higher

BAKER ST CONTAMINATION AREA  
BAKER ST. ( / WASHINGTON ST)  
LANSING, MI

SHWS S103085648  
N/A

SHWS:

Facility ID: 330003  
Facility Status: Final Cleanup - PRP/Other  
Source: Automotive Services  
Pollutant(s): Benzene Toluene, Xylenes TCE Pb  
SAM Score: 32  
SAM Score Date: 4/22/91 0:00:00  
Township: 04N  
Range: 02W  
Section: 21  
Quarter: D  
Quarter/Quarter: B  
Change: Rescored from 07 to 32  
Change Date: 4/22/91 0:00:00  
County Code: 33

19  
NNW  
1/2-1  
4758  
Lower

LBWL-ECKERT STATION  
601 ISLAND AVE  
LANSING, MI

SHWS S102353380  
LUST N/A

SHWS:

Facility ID: 330007  
Facility Status: Eval/Interim Resp-PRP/Oth  
Source: Petroleum & Coal Products  
Pollutant(s): BENZENE, PNA'S  
SAM Score: 24  
SAM Score Date: 9/3/97 0:00:00  
Township: 04N  
Range: 02W  
Section: 21  
Quarter: Not reported  
Quarter/Quarter: Not reported  
Change: Name change 09/03/97  
Change Date: 9/3/97 0:00:00  
County Code: 33

LUST:

Facility ID: 0-019017  
Facility Status: OPEN

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

20  
West  
1/2-1  
5126  
Higher

LINDELL DROP FORGE CO  
2830 S LOGAN ST  
LANSING, MI 48901

RCRIS-SQG 1000186032  
FINDS MID005318340  
UST  
SHWS  
LUST

RCRIS:

Owner: LINDELL DOUG  
(312) 555-1212  
  
Contact: RON ERBE  
(517) 393-1330  
  
Record Date: 02/08/1988  
Classification: Not reported  
Used Oil Recyc: No  
  
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:  
AIRS Facility System (AIRS/AFS)  
RCRIS

SHWS:

Facility ID: 330080  
Facility Status: Final Cleanup - Funds  
Source: Metal Processing  
Pollutant(s): BTEX Asbestos Pb Cu, Oil Grease Cr As Ba  
SAM Score: 39  
SAM Score Date: 9/23/91 0:00:00  
Township: 04N  
Range: 02W  
Section: 29  
Quarter: D  
Quarter/Quarter: B  
Change: add contact person  
Change Date: Not reported  
County Code: 33

LUST:

Facility ID: 0-015523  
Facility Status: OPEN

UST:

Facility ID: 0015523  
Tank ID: 1  
Owner: JACK RACHMAN  
Owner Address: 962 NORTHGATE DR  
EAST LANSING, MI  
Product: Diesel  
Capacity: 20,000  
Tank Status: Removed from Ground

Owner Phone: (517) 332-4334

Facility ID: 0015523  
Tank ID: 2  
Owner: JACK RACHMAN  
Owner Address: 962 NORTHGATE DR  
EAST LANSING, MI  
Product: #5 FUEL OIL  
Capacity: 20,000  
Tank Status: Removed from Ground

Owner Phone: (517) 332-4334



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

LINDELL DROP FORGE CO (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000186032

Facility ID:	0015523		
Tank ID:	3		
Owner:	JACK RACHMAN	Owner Phone:	(517) 332-4334
Owner Address:	962 NORTHGATE DR EAST LANSING, MI		
Product:	#5 FUEL OIL		
Capacity:	20,000		
Tank Status:	Removed from Ground		
Facility ID:	0015523		
Tank ID:	4		
Owner:	JACK RACHMAN	Owner Phone:	(517) 332-4334
Owner Address:	962 NORTHGATE DR EAST LANSING, MI		
Product:	Diesel		
Capacity:	20,000		
Tank Status:	Removed from Ground		
Facility ID:	0015523		
Tank ID:	5		
Owner:	JACK RACHMAN	Owner Phone:	(517) 332-4334
Owner Address:	962 NORTHGATE DR EAST LANSING, MI		
Product:	Diesel		
Capacity:	20,000		
Tank Status:	Removed from Ground		
Facility ID:	0015523		
Tank ID:	6		
Owner:	JACK RACHMAN	Owner Phone:	(517) 332-4334
Owner Address:	962 NORTHGATE DR EAST LANSING, MI		
Product:	Diesel		
Capacity:	20,000		
Tank Status:	Removed from Ground		
Facility ID:	0015523		
Tank ID:	7		
Owner:	JACK RACHMAN	Owner Phone:	(517) 332-4334
Owner Address:	962 NORTHGATE DR EAST LANSING, MI		
Product:	Gasoline		
Capacity:	2,000		
Tank Status:	Removed from Ground		
Facility ID:	0015523		
Tank ID:	8		
Owner:	JACK RACHMAN	Owner Phone:	(517) 332-4334
Owner Address:	962 NORTHGATE DR EAST LANSING, MI		
Product:	Diesel		
Capacity:	2,000		
Tank Status:	Removed from Ground		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

21  
NNE  
1/2-1  
5168  
Lower

CITY OF LANSING/O&M DIV COMPLEX  
601 E SOUTH ST  
LANSING, MI 48910

SHWS S103595391  
N/A

SHWS:

Facility ID: 330440  
Facility Status: Eval/Interim Resp-PRP/Oth  
Source: Automotive Services  
Pollutant(s): Chrysene 1,4DCB BTEX, Benzo(a)anthracene, Phenanthrene  
SAM Score: 32  
SAM Score Date: 8/31/92 0:00:00  
Township: 04N  
Range: 02W  
Section: 21  
Quarter: Not reported  
Quarter/Quarter: Not reported  
Change: New Addition to List  
Change Date: 8/31/92 0:00:00  
County Code: 33

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
LANSING	S104910851	6272 S. LOGAN ST.	(FRMR. SUNOCO)		BEA	293
LANSING	S104910282	DIAMOND REO SITE, LOT 6	S. CEDAR ST.		BEA	164
LANSING	S104911007	3406 S. MARTIN LUTHER KING JR. BLVD.	SW CORNER OF S. MLK / HOLMES RD.		BEA	334
LANSING	91208478	GRAND TRUCK AND WESTERN TRACKS CEDAR AVE	GRAND TRUCK AND WESTERN TRACKS CEDA		ERNS	
LANSING	S104910849	5101 S. WAVERLY DRIVE	PROPOSED RITE AID #1613		BEA	292
LANSING	S104910061	VACANT PARCEL ON M-43	W. SAGINAW HWY.		BEA	115
LANSING	S104910064	VACANT PARCEL ON M-43	W. SAGINAW HWY.		BEA	116
LANSING	S104909789	E. SIDE OF S. CEDAR ST.	E. SIDE OF S. CEDAR ST. BETWEEN GREENLA'		BEA	62

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Elapsed ASTM days:** Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

### FEDERAL ASTM STANDARD RECORDS

#### **NPL:** National Priority List

Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 01/23/01

Date Made Active at EDR: 02/16/01

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/05/01

Elapsed ASTM days: 11

Date of Last EDR Contact: 05/07/01

#### **Proposed NPL:** Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 01/23/01

Date Made Active at EDR: 02/16/01

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/05/01

Elapsed ASTM days: 11

Date of Last EDR Contact: 05/07/01

#### **CERCLIS:** Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/16/01

Date Made Active at EDR: 04/30/01

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/26/01

Elapsed ASTM days: 35

Date of Last EDR Contact: 06/25/01

#### **CERCLIS-NFRAP:** CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 03/16/01

Date Made Active at EDR: 04/30/01

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/26/01

Elapsed ASTM days: 35

Date of Last EDR Contact: 06/25/01

#### **CORRACTS:** Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/20/00  
Date Made Active at EDR: 08/01/00  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/12/00  
Elapsed ASTM days: 50  
Date of Last EDR Contact: 06/12/01

### **RCRIS:** Resource Conservation and Recovery Information System

Source: EPA/NTIS  
Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00  
Date Made Active at EDR: 07/31/00  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 07/10/00  
Elapsed ASTM days: 21  
Date of Last EDR Contact: 05/29/01

### **ERNS:** Emergency Response Notification System

Source: EPA/NTIS  
Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00  
Date Made Active at EDR: 09/06/00  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 08/11/00  
Elapsed ASTM days: 26  
Date of Last EDR Contact: 04/19/01

### **FEDERAL ASTM SUPPLEMENTAL RECORDS**

#### **BRS:** Biennial Reporting System

Source: EPA/NTIS  
Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/97  
Database Release Frequency: Biennially

Date of Last EDR Contact: 06/18/01  
Date of Next Scheduled EDR Contact: 09/17/01

#### **CONSENT:** Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices  
Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A  
Database Release Frequency: Varies

Date of Last EDR Contact: N/A  
Date of Next Scheduled EDR Contact: N/A

#### **ROD:** Records Of Decision

Source: NTIS  
Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/99  
Database Release Frequency: Annually

Date of Last EDR Contact: 07/10/01  
Date of Next Scheduled EDR Contact: 10/08/01

#### **DELISTED NPL:** National Priority List Deletions

Source: EPA  
Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/23/01  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/07/01  
Date of Next Scheduled EDR Contact: 08/06/01

### **FINDS:** Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA  
Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/07/00  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/09/01  
Date of Next Scheduled EDR Contact: 10/08/01

### **HMIRS:** Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation  
Telephone: 202-366-4526

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 11/30/00  
Database Release Frequency: Annually

Date of Last EDR Contact: 04/24/01  
Date of Next Scheduled EDR Contact: 07/23/01

### **MLTS:** Material Licensing Tracking System

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/30/01  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/09/01  
Date of Next Scheduled EDR Contact: 10/08/01

### **MINES:** Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959

Date of Government Version: 08/01/98  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/02/01  
Date of Next Scheduled EDR Contact: 10/01/01

### **NPL LIENS:** Federal Superfund Liens

Source: EPA  
Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91  
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/23/01  
Date of Next Scheduled EDR Contact: 08/20/01

### **PADS:** PCB Activity Database System

Source: EPA  
Telephone: 202-260-3936

PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/11/00  
Database Release Frequency: Annually

Date of Last EDR Contact: 05/18/01  
Date of Next Scheduled EDR Contact: 08/13/01

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **RAATS: RCRA Administrative Action Tracking System**

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/11/01

Date of Next Scheduled EDR Contact: 09/10/01

### **TRIS: Toxic Chemical Release Inventory System**

Source: EPA

Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/98

Database Release Frequency: Annually

Date of Last EDR Contact: 06/27/01

Date of Next Scheduled EDR Contact: 09/24/01

### **TSCA: Toxic Substances Control Act**

Source: EPA

Telephone: 202-260-1444

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98

Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 04/24/01

Date of Next Scheduled EDR Contact: 07/23/01

### **FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/00

Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/26/01

Date of Next Scheduled EDR Contact: 09/24/01

### **FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 08/10/00

Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/26/01

Date of Next Scheduled EDR Contact: 09/24/01

## **STATE OF MICHIGAN ASTM STANDARD RECORDS**

### **SHWS: Contaminated Sites**

Source: Department of Environmental Quality

Telephone: 517-373-9541

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/01/00  
Date Made Active at EDR: 12/30/00  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/27/00  
Elapsed ASTM days: 33  
Date of Last EDR Contact: 06/01/01

### **SWF/LF:** Solid Waste Facilities Database

Source: Department of Environmental Quality  
Telephone: 517-335-4035

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/04/01  
Date Made Active at EDR: 05/31/01  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/07/01  
Elapsed ASTM days: 24  
Date of Last EDR Contact: 05/02/01

### **LUST:** Leaking Underground Storage Tank Sites

Source: Department of Environmental Quality  
Telephone: 517-335-3075

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/12/01  
Date Made Active at EDR: 04/04/01  
Database Release Frequency: Annually

Date of Data Arrival at EDR: 03/08/01  
Elapsed ASTM days: 27  
Date of Last EDR Contact: 06/18/01

### **UST:** Underground Storage Tank Facility List

Source: Department of Environmental Quality  
Telephone: 517-373-8168

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/02/01  
Date Made Active at EDR: 04/06/01  
Database Release Frequency: Annually

Date of Data Arrival at EDR: 03/08/01  
Elapsed ASTM days: 29  
Date of Last EDR Contact: 07/09/01

### **BEA:** BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

Source: DEPT. OF ENVIRONMENTAL QUALITY  
Telephone: 517-373-9541

Date of Government Version: 04/30/01  
Date Made Active at EDR: 05/18/01  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/02/01  
Elapsed ASTM days: 16  
Date of Last EDR Contact: 06/18/01

### **STATE OF MICHIGAN ASTM SUPPLEMENTAL RECORDS**

#### **AST:** Aboveground Tanks

Source: Department of Environmental Quality  
Telephone: 517-373-8168  
Registered Aboveground Storage Tanks.

Date of Government Version: 01/02/01  
Database Release Frequency: Annually

Date of Last EDR Contact: 07/06/01  
Date of Next Scheduled EDR Contact: 09/17/01

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### EDR PROPRIETARY DATABASES

**Former Manufactured Gas (Coal Gas) Sites:** The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

### HISTORICAL AND OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

**Oil/Gas Pipelines/Electrical Transmission Lines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

2508 S. CEDAR  
2508 S. CEDAR  
LANSING, MI 48910

### **TARGET PROPERTY COORDINATES**

Latitude (North):	42.706200 - 42° 42' 22.3"
Longitude (West):	84.548500 - 84° 32' 54.6"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	700777.8
UTM Y (Meters):	4730889.0

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2442084-F5 LANSING SOUTH, MI  
Source: USGS 7.5 min quad index

#### GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General ESE

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

#### FEMA FLOOD ZONE

Target Property County  
INGHAM, MI

FEMA Flood  
Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 2600900006B / CBPP

Additional Panels in search area: 2600900010B / CBPP  
2600900011B / CBNP  
2600900007C / CBPP

#### NATIONAL WETLAND INVENTORY

NWI Quad at Target Property  
LANSING SOUTH

NWI Electronic  
Data Coverage  
Not Available

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Site-Specific Hydrogeological Data\*:

Search Radius: 2.0 miles  
Status: Not found

### AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	1/8 - 1/4 Mile South	Not Reported
5	1/2 - 1 Mile NW	Not Reported
6	1/2 - 1 Mile NW	Not Reported
11	1/2 - 1 Mile South	ESE
14	1/2 - 1 Mile SE	W
17	1/2 - 1 Mile NNE	N
18	1/2 - 1 Mile WNW	Not Reported
20	1/2 - 1 Mile WSW	NNW
22	1 - 2 Miles North	NNE
25	1 - 2 Miles NNE	NE
26	1 - 2 Miles NNE	NE
27	1 - 2 Miles South	Not Reported
28	1 - 2 Miles WNW	NE
C32	1 - 2 Miles North	SE
34	1 - 2 Miles SE	W
C35	1 - 2 Miles North	ESE
36	1 - 2 Miles North	SSW
39	1 - 2 Miles NNE	NE

For additional site information, refer to Physical Setting Source Map Findings.

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### GEOLOGIC AGE IDENTIFICATION

Geologic Code: PP1  
Era: Paleozoic  
System: Pennsylvanian  
Series: Atokan and Morrowan Series

#### ROCK STRATIGRAPHIC UNIT

Category: Stratified Sequence

\* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBANLAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	60 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loamy sand  
sandy loam  
silt loam  
muck

Surficial Soil Types: loamy sand  
sandy loam  
silt loam  
muck

Shallow Soil Types: loamy sand

Deeper Soil Types: fine sand  
stratified  
muck

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

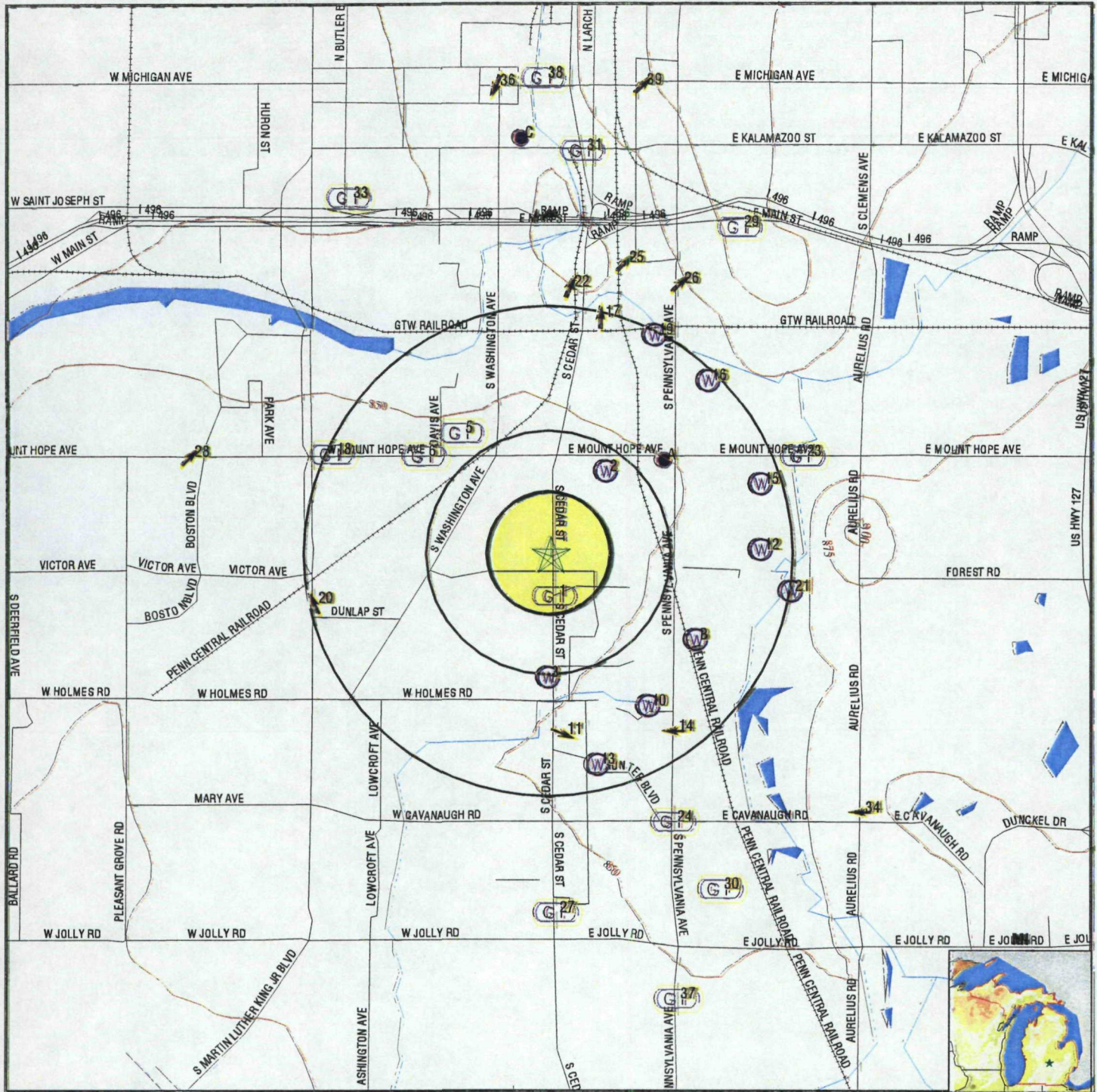
Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	33040228001	1/4 - 1/2 Mile NE
3	33040228002	1/2 - 1 Mile South
A4	33040227006	1/2 - 1 Mile NE
B7	33040227007	1/2 - 1 Mile ESE
B9	33040227008	1/2 - 1 Mile ESE
10	33040234006	1/2 - 1 Mile SSE
12	33040227003	1/2 - 1 Mile East
13	33040233001	1/2 - 1 Mile SSE
15	33040227004	1/2 - 1 Mile ENE
16	33040222002	1/2 - 1 Mile NE
19	33040222001	1/2 - 1 Mile NNE
21	33040227005	1/2 - 1 Mile East



# PHYSICAL SETTING SOURCE MAP - 658543.3s



- Major Roads
- Contour Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons

- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY: 2508 S. Cedar  
 ADDRESS: 2508 S. Cedar  
 CITY/STATE/ZIP: Lansing MI 48910  
 LAT/LONG: 42.7062 / 84.5485

CUSTOMER: Peerless Environmental Serv.  
 CONTACT: Marie Lamia  
 INQUIRY #: 658543.3s  
 DATE: July 19, 2001 5:28 pm



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

1  
South  
1/8 - 1/4 Mile  
Higher

Site ID: 330370  
Groundwater Flow: Not Reported  
Shallowest Water Table Depth: 2.8  
Deepest Water Table Depth: 9  
Average Water Table Depth: Not Reported  
Date: 12/1995

AQUIFLOW 34703

2  
NE  
1/4 - 1/2 Mile  
Higher

MI WELLS 33040228001

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040228001	County:	INGHAM
Owner:	CULLIMORE		
Address:	2004 ROBERTS LANE		
	LANSING, MI		
Well Address:	2004 ROBERTS LANE		
Well Address is Owner's:	Yes		
Township Number:	3306	Section Number:	28
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	NE	40 Acre Fraction:	NE
180 Acre Fraction:	NE	Coordinate System:	State Plane
X Coordinate:	1943369.60	Y Coordinate:	441406.60
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	850.00	Elevation Method:	Not Reported
	LANSING, MI 48910		
Well Depth (feet):	160.0	Tax Parcel Number:	Not Reported
Date Drilled:	03/13/58	Well was new when drilled:	Unknown
Drilling Method:	Unknown	Wellhead Completion Type:	Unknown
Is this well dry:	No	Use:	Unknown
Casing Type:	Unknown	Casing Method:	Unknown
Casing Diam. (inches):	3.00	Depth of Casing (feet):	94.0
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	0.0	Was Drive Shoe Used:	Unknown
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	38.00	Is Well Flowing:	No
Pumping Level (feet):	12	Pumping Test Time (hrs):	1.0
Pumping Test Rate (hrs):	15	2nd Pumping Level:	0
2nd Test Pumping Rate:	10	2nd Pumping Test Length:	1.5
Label Angle (degrees):	0.0	Type of Grout:	Unknown
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:	Unknown		
Distance of nearest Contamination Source (feet):	0		
Direction to the nearest Contamination Source:	Not Reported		
Was Well Disinfected:	Unknown	Was Well Plugged:	Unknown
Type of Pump:	Not Reported	Was Pump Installed:	Unknown
Pump Manufacturer:	Not Reported	Pump horsepower:	Not Reported
Drop Pipe Length (feet):	0	Pumping Capacity (gal/min):	0
Driller's Registration #:	Not Reported	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	0.05 MILES S OF MT. HOPE AVE. 150' W OF ROBERTS LANE.		
Data Source:	Statewide ground water data base format		

3  
South  
1/2 - 1 Mile  
Higher

MI WELLS 33040228002

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040228002	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST.		
	LANSING, MI		
Well Address:	70-01		
Well Address is Owner's:	No		
Township Number:	3306	Section Number:	28
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	SE	40 Acre Fraction:	SW
180 Acre Fraction:	SE	Coordinate System:	State Plane
X Coordinate:	1942111.30	Y Coordinate:	436933.30
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	844.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	400.0	Tax Parcel Number:	Not Reported
Date Drilled:	06/12/70	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Pitless Adapter
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Welded/Glued
Casing Diam. (inches):	14.00	Depth of Casing (feet):	61.0
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	1.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	25.00	Is Well Flowing:	No
Pumping Level (feet):	110	Pumping Test Time (hrs):	6.5
Pumping Test Rate (hrs):	335	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	180.0	Type of Grout:	Not Grouted
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:		Sewer	
Distance of nearest Contamination Source (feet):	80		
Direction to the nearest Contamination Source:	E		
Was Well Disinfected:	Yes	Was Well Plugged:	Unknown
Type of Pump:	Submersible	Was Pump Installed:	Not Reported
Pump Manufacturer:	LAYNE & BOWLER	Pump horsepower:	40
Drop Pipe Length (feet):	306	Pumping Capacity (gal/min):	350
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	150' W OF CEDAR ST. 100' S OF CREST ST.		
Data Source:	Statewide ground water data base format		

A4  
NE  
1/2 - 1 Mile  
Higher

MI WELLS 33040227006

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040227006	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST.		
	LANSING, MI		
Well Address:	65-01		
Well Address is Owner's:	No		
Township Number:	3306	Section Number	27
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	NE	40 Acre Fraction:	NW
180 Acre Fraction:	NW	Coordinate System:	State Plane
X Coordinate:	1944326.30	Y Coordinate:	441564.20
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	860.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	413.0	Tax Parcel Number:	Not Reported
Date Drilled:	06/20/75	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Pitless Adapter
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Welded/Glued
Casing Diam. (inches):	14.00	Depth of Casing (feet):	87.8
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	1.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	81.00	Is Well Flowing:	No
Pumping Level (feet):	187	Pumping Test Time (hrs):	6.0
Pumping Test Rate (hrs):	554	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	180.0	Type of Grout:	Not Grouted
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:		Sewer	
Distance of nearest Contamination Source (feet):		125	
Direction to the nearest Contamination Source:		S	
Was Well Disinfected:	Yes	Was Well Plugged:	Unknown
Type of Pump:	Submersible	Was Pump Installed:	Not Reported
Pump Manufacturer:	LAYNE & BOWLER, INC.	Pump horsepower:	40
Drop Pipe Length (feet):	288	Pumping Capacity (gal/min):	350
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	200' N OF MCKIM AVE. 600' W OF PENNSYLVANIA AVE.		
Data Source:	Statewide ground water data base format		

5  
NW  
1/2 - 1 Mile  
Higher

Site ID:	330263
Groundwater Flow:	Not Reported
Shallowest Water Table Depth:	10
Deepest Water Table Depth:	12
Average Water Table Depth:	Not Reported
Date:	10/1990

AQUIFLOW 34834

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

6  
NW  
1/2 - 1 Mile  
Higher

Site ID: 330133  
Groundwater Flow: Not Reported  
Shallowest Water Table Depth: Not Reported  
Deepest Water Table Depth: Not Reported  
Average Water Table Depth: 7  
Date: Not Reported

AQUIFLOW 34715

B7  
ESE  
1/2 - 1 Mile  
Higher

MI WELLS 33040227007

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040227007	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST.		
	LANSING, MI		
Well Address:	60-03		
Well Address is Owner's:	No		
Township Number:	3306	Section Number:	27
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	SW	40 Acre Fraction:	NE
180 Acre Fraction:	SW	Coordinate System:	State Plane
X Coordinate:	1945216.50	Y Coordinate:	438006.50
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	845.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	336.0	Tax Parcel Number:	Not Reported
Date Drilled:	10/30/47	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Unknown
Is this well dry:	Unknown	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Unknown
Casing Diam. (inches):	14.00	Depth of Casing (feet):	43.6
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	13.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	0.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	999.99	Is Well Flowing:	Unknown
Pumping Level (feet):	0	Pumping Test Time (hrs):	0.0
Pumping Test Rate (hrs):	0	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	0.0	Type of Grout:	Unknown
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:	Unknown		
Distance of nearest Contamination Source (feet):	0		
Direction to the nearest Contamination Source:	Not Reported		
Was Well Disinfected:	Unknown	Was Well Plugged:	Unknown
Type of Pump:	Not Reported	Was Pump Installed:	Unknown
Pump Manufacturer:	Not Reported	Pump horsepower:	Not Reported
Drop Pipe Length (feet):	0	Pumping Capacity (gal/min):	0
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	300' E OF PENNSYLVANIA AVE. 3700' S OF MT. HOPE AVE.		
Data Source:	Statewide ground water data base format		

B9  
ESE  
1/2 - 1 Mile  
Higher

MI WELLS 33040227008



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040227008	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST.		
	LANSING, MI		
Well Address:	60-04		
Well Address is Owner's:	No		
Township Number:	3306	Section Number:	27
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	NW	40 Acre Fraction:	SE
180 Acre Fraction:	SW	Coordinate System:	State Plane
X Coordinate:	1945395.10	Y Coordinate:	437486.00
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	842.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	348.0	Tax Parcel Number:	Not Reported
Date Drilled:	00/00/45	Well was new when drilled:	Unknown
Drilling Method:	Unknown	Wellhead Completion Type:	Unknown
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Unknown
Casing Diam. (inches):	0.00	Depth of Casing (feet):	0.0
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	0.0	Was Drive Shoe Used:	Unknown
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	8.00	Is Well Flowing:	No
Pumping Level (feet):	0	Pumping Test Time (hrs):	0.0
Pumping Test Rate (hrs):	0	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	0.0	Type of Grout:	Unknown
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:	Unknown		
Distance of nearest Contamination Source (feet):	0		
Direction to the nearest Contamination Source:	Not Reported		
Was Well Disinfected:	Unknown	Was Well Plugged:	Unknown
Type of Pump:	Unknown	Was Pump Installed:	Not Reported
Pump Manufacturer:	Not Reported	Pump horsepower:	Not Reported
Drop Pipe Length (feet):	35	Pumping Capacity (gal/min):	0
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	4200' S OF MT. HOPE AVE. 400' E OF PENNSYLVANIA AVE.		
Data Source:	Statewide ground water data base format		

10  
SSE  
1/2 - 1 Mile  
Higher

MI WELLS 33040234006

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040234006	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST.		
	LANSING, MI		
Well Address:	70-03		
Well Address is Owner's:	No		
Township Number:	3306	Section Number:	34
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	NE	40 Acre Fraction:	NW
180 Acre Fraction:	NW	Coordinate System:	State Plane
X Coordinate:	1944271.00	Y Coordinate:	436308.80
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	833.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	392.0	Tax Parcel Number:	Not Reported
Date Drilled:	06/11/70	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Pitless Adapter
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Welded/Glued
Casing Diam. (inches):	14.00	Depth of Casing (feet):	56.0
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	1.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	36.00	Is Well Flowing:	No
Pumping Level (feet):	114	Pumping Test Time (hrs):	5.5
Pumping Test Rate (hrs):	1100	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	180.0	Type of Grout:	Not Grouted
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:		Sewer	
Distance of nearest Contamination Source (feet):	75		
Direction to the nearest Contamination Source:	W		
Was Well Disinfected:	Yes	Was Well Plugged:	Unknown
Type of Pump:	Submersible	Was Pump Installed:	Not Reported
Pump Manufacturer:	LAYNE & BOWLER	Pump horsepower:	40
Drop Pipe Length (feet):	308	Pumping Capacity (gal/min):	350
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	2500' N OF CAVANOUGH RD. 600' W OF PENNSYLVANIA AVE.		
Data Source:	Statewide ground water data base format		

11  
South  
1/2 - 1 Mile  
Higher

Site ID: 330264  
Groundwater Flow: ESE  
Shallowest Water Table Depth: 12  
Deepest Water Table Depth: 15  
Average Water Table Depth: Not Reported  
Date: 09/1992

AQUIFLOW 34831

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

12  
East  
1/2 - 1 Mile  
Lower

MI WELLS 33040227003

Well ID:	33040227003	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST. LANSING, MI		
Well Address:	60-02		
Well Address is Owner's:	No		
Township Number:	3306	Section Number	27
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	SW	40 Acre Fraction:	SW
180 Acre Fraction:	NE	Coordinate System:	State Plane
X Coordinate:	1946711.70	Y Coordinate:	439702.30
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	832.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	400.0	Tax Parcel Number:	Not Reported
Date Drilled:	01/29/69	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Pitless Adapter
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Welded/Glued
Casing Diam. (inches):	14.00	Depth of Casing (feet):	44.0
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	1.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	20.00	Is Well Flowing:	No
Pumping Level (feet):	96	Pumping Test Time (hrs):	5.8
Pumping Test Rate (hrs):	485	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	180.0	Type of Grout:	Not Grouted
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:	Sewer		
Distance of nearest Contamination Source (feet):	118		
Direction to the nearest Contamination Source:	W		
Was Well Disinfected:	Yes	Was Well Plugged:	Unknown
Type of Pump:	Submersible	Was Pump Installed:	Not Reported
Pump Manufacturer:	LAYNE & BOWLER, INC.	Pump horsepower:	40
Drop Pipe Length (feet):	300	Pumping Capacity (gal/min):	350
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	2000' S OF MT. HOPE AVE. 2200' W OF AURELIUS RD.		
Data Source:	Statewide ground water data base format		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

13  
SSE  
1/2 - 1 Mile  
Higher

MI WELLS 33040233001

Well ID:	33040233001	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST. LANSING, MI		
Well Address:	70-02		
Well Address is Owner's:	No		
Township Number:	3306	Section Number	33
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	NE	40 Acre Fraction:	SE
180 Acre Fraction:	NE	Coordinate System:	State Plane
X Coordinate:	1943161.60	Y Coordinate:	435036.90
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	866.70	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	380.0	Tax Parcel Number:	Not Reported
Date Drilled:	06/12/70	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Pitless Adapter
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Welded/Glued
Casing Diam. (inches):	14.00	Depth of Casing (feet):	56.9
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	1.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	38.00	Is Well Flowing:	No
Pumping Level (feet):	197	Pumping Test Time (hrs):	5.0
Pumping Test Rate (hrs):	876	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	0.0	Type of Grout:	Not Grouted
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:	Sewer		
Distance of nearest Contamination Source (feet):	135		
Direction to the nearest Contamination Source:	N		
Was Well Disinfected:	Yes	Was Well Plugged:	Unknown
Type of Pump:	Submersible	Was Pump Installed:	Not Reported
Pump Manufacturer:	LAYNE & BOWLER	Pump horsepower:	40
Drop Pipe Length (feet):	306	Pumping Capacity (gal/min):	350
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	1350' S OF HOLMES RD. 900' E OF CEDAR ST.		
Data Source:	Statewide ground water data base format		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

14  
SE  
1/2 - 1 Mile  
Higher

Site ID: 330419  
Groundwater Flow: W  
Shallowest Water Table Depth: 22  
Deepest Water Table Depth: 24  
Average Water Table Depth: Not Reported  
Date: 12/1992

AQUIFLOW 34762

15  
ENE  
1/2 - 1 Mile  
Lower

MI WELLS 33040227004

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040227004	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST.		
	LANSING, MI		
Well Address:	65-03		
Well Address is Owner's:	No		
Township Number:	3306	Section Number	27
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	NW	40 Acre Fraction:	NW
180 Acre Fraction:	NE	Coordinate System:	State Plane
X Coordinate:	1946716.50	Y Coordinate:	441124.30
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	829.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	392.0	Tax Parcel Number:	Not Reported
Date Drilled:	07/17/68	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Pitless Adapter
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Welded/Glued
Casing Diam. (inches):	14.00	Depth of Casing (feet):	48.3
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	1.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	44.00	Is Well Flowing:	No
Pumping Level (feet):	100	Pumping Test Time (hrs):	5.5
Pumping Test Rate (hrs):	430	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	180.0	Type of Grout:	Not Grouted
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:		Sewer	
Distance of nearest Contamination Source (feet):		250	
Direction to the nearest Contamination Source:		W	
Was Well Disinfected:	Yes	Was Well Plugged:	Unknown
Type of Pump:	Submersible	Was Pump Installed:	Not Reported
Pump Manufacturer:	LAYNE & BOWLER, INC.	Pump horsepower:	40
Drop Pipe Length (feet):	300	Pumping Capacity (gal/min):	350
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	550' S OF MT. HOPE AVE. 2200' W OF AURELIUS RD.		
Data Source:	Statewide ground water data base format		

16  
NE  
1/2 - 1 Mile  
Higher

MI WELLS 33040222002



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040222002	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST.		
	LANSING, MI		
Well Address:	60-01		
Well Address is Owner's:	No		
Township Number:	3306	Section Number:	22
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	SW	40 Acre Fraction:	NE
180 Acre Fraction:	SW	Coordinate System:	State Plane
X Coordinate:	1945600.60	Y Coordinate:	443324.00
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	824.70	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	410.0	Tax Parcel Number:	Not Reported
Date Drilled:	05/25/68	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Pitless Adapter
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Threaded
Casing Diam. (inches):	14.00	Depth of Casing (feet):	43.3
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	1.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	47.00	Is Well Flowing:	No
Pumping Level (feet):	137	Pumping Test Time (hrs):	5.0
Pumping Test Rate (hrs):	388	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	0.0	Type of Grout:	Other
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:		Sewer	
Distance of nearest Contamination Source (feet):		100	
Direction to the nearest Contamination Source:		E	
Was Well Disinfected:	Yes	Was Well Plugged:	Unknown
Type of Pump:	Submersible	Was Pump Installed:	Not Reported
Pump Manufacturer:	LAYNE & BOWLER	Pump horsepower:	40
Drop Pipe Length (feet):	300	Pumping Capacity (gal/min):	350
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	150.0	Character Width (feet):	150.0
Rig Operator Name:	Not Reported		
Driller's Directions:	1100' N OF MT. HOPE AVE. 600' E OF PENNSYLVANIA AVE.		
Data Source:	Statewide ground water data base format		

17  
NNE  
1/2 - 1 Mile  
Lower

Site ID:	330440
Groundwater Flow:	N
Shallowest Water Table Depth:	7.5
Deepest Water Table Depth:	16.5
Average Water Table Depth:	Not Reported
Date:	Not Reported

AQUIFLOW 34837

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

18  
WNW  
1/2 - 1 Mile  
Higher

Site ID: 330242  
Groundwater Flow: Not Reported  
Shallowest Water Table Depth: Not Reported  
Deepest Water Table Depth: Not Reported  
Average Water Table Depth: 7  
Date: 04/1991

AQUIFLOW 34731

19  
NNE  
1/2 - 1 Mile  
Lower

MI WELLS 33040222001

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	33040222001	County:	INGHAM
Owner:	BOARD OF WATER & LIGHT		
Address:	123 W. OTTAWA ST.		
	LANSING, MI		
Well Address:	50-24		
Well Address is Owner's:	No		
Township Number:	3306	Section Number:	22
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	NE	40 Acre Fraction:	NW
180 Acre Fraction:	SW	Coordinate System:	State Plane
X Coordinate:	1944439.60	Y Coordinate:	444295.60
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	820.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	436.0	Tax Parcel Number:	Not Reported
Date Drilled:	06/14/68	Well was new when drilled:	Unknown
Drilling Method:	Cable	Wellhead Completion Type:	Approved Pit
Is this well dry:	No	Use:	Type I Public
Casing Type:	Unknown	Casing Method:	Welded/Glued
Casing Diam. (inches):	14.00	Depth of Casing (feet):	46.0
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	7.0	Was Drive Shoe Used:	Yes
Screen Type:	Unknown	Screen Diameter:	0.00
Slot/Gauze:	Not Reported	Fittings Type:	Not Reported
Screen Opening Size:	0.000	Screen Length (feet):	0.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	61.00	Is Well Flowing:	No
Pumping Level (feet):	189	Pumping Test Time (hrs):	5.5
Pumping Test Rate (hrs):	300	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	0.0	Type of Grout:	Not Grouted
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:		Sewer	
Distance of nearest Contamination Source (feet):	50		
Direction to the nearest Contamination Source:	NW		
Was Well Disinfected:	Yes	Was Well Plugged:	Unknown
Type of Pump:	Unknown	Was Pump Installed:	Not Reported
Pump Manufacturer:	PEERLESS PUMP CO.	Pump horsepower:	40
Drop Pipe Length (feet):	200	Pumping Capacity (gal/min):	400
Driller's Registration #:	0729	Date Data was entered:	08/88
Character Height (feet):	150.0	Character Width (feet):	150.0
Rig Operator Name:	Not Reported		
Driller's Directions:	150' N OF BAKER ST., 500' W OF PENNSYLVANIA AVE.		
Data Source:	Statewide ground water data base format		

20  
WSW  
1/2 - 1 Mile  
Higher

Site ID: 330320  
Groundwater Flow: NNW  
Shallowest Water Table Depth: 7  
Deepest Water Table Depth: 15  
Average Water Table Depth: Not Reported  
Date: 05/1995

AQUIFLOW 34806

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

21

East

1/2 - 1 Mile

Lower

MI WELLS

33040227005

Well ID:	33040227005	County:	INGHAM
Owner:	U.S.G.S.		
Address:	6520 MERCANTILE WAY		
	LANSING, MI		
Well Address:	Not Reported		
Well Address is Owner's:	No		
Township Number:	3306	Section Number	27
Tier Number:	04	Range Number:	02
North/South Delineation:	North	East/West Delineation:	West
10 Acre Fraction:	NE	40 Acre Fraction:	NW
180 Acre Fraction:	SE	Coordinate System:	State Plane
X Coordinate:	1947356.30	Y Coordinate:	438799.00
Coordinates Method:	Digitized	Location Verif. Method:	Field
Ground Elev. (feet):	822.00	Elevation Method:	Not Reported
	LANSING, MI		
Well Depth (feet):	37.0	Tax Parcel Number:	Not Reported
Date Drilled:	06/00/67	Well was new when drilled:	Unknown
Drilling Method:	Auger/Bored	Wellhead Completion Type:	12" Above Grade
Is this well dry:	No	Use:	Monitoring Well
Casing Type:	Unknown	Casing Method:	Unknown
Casing Diam. (inches):	1.25	Depth of Casing (feet):	34.0
2nd Casing Diameter:	0.00	Depth of 2nd Casing:	0.0
Grouted Hole Diameter:	0.00	Depth of Grouting:	0.0
2nd Grouted Hole Diam.:	0.00	Depth of 2nd Grouting:	0.0
Casing Height at Surface:	3.0	Was Drive Shoe Used:	Unknown
Screen Type:	Unknown	Screen Diameter:	1.25
Slot/Gauze:	Gauze	Fittings Type:	Not Reported
Screen Opening Size:	60.000	Screen Length (feet):	3.0
Beginning Depth of Screen set (feet):	0.00		
Ending Depth of Screen set (feet):	0.00		
Length of Blank Above Screen (feet):	0.0		
Static Water Level:	14.00	Is Well Flowing:	No
Pumping Level (feet):	0	Pumping Test Time (hrs):	0.0
Pumping Test Rate (hrs):	0	2nd Pumping Level:	0
2nd Test Pumping Rate:	0	2nd Pumping Test Length:	0.0
Label Angle (degrees):	0.0	Type of Grout:	Other
End Depth of Grout (feet):	Not Reported	Beg. Depth of Grout (feet):	Not Reported
Nearest Contamination Source Type:	None		
Distance of nearest Contamination Source (feet):	0		
Direction to the nearest Contamination Source:	Not Reported		
Was Well Disinfected:	Unknown	Was Well Plugged:	Unknown
Type of Pump:	Not Reported	Was Pump Installed:	No
Pump Manufacturer:	Not Reported	Pump horsepower:	Not Reported
Drop Pipe Length (feet):	0	Pumping Capacity (gal/min):	0
Driller's Registration #:	0931	Date Data was entered:	08/88
Character Height (feet):	200.0	Character Width (feet):	200.0
Rig Operator Name:	Not Reported		
Driller's Directions:	2900' S OF MT. HOPE AVE. 1500' W OF AURELIUS RD.		
Data Source:	Statewide ground water data base format		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

<b>22</b> <b>North</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID:	330245	<b>AQUIFLOW</b>	<b>34728</b>
	Groundwater Flow:	NNE		
	Shallowest Water Table Depth:	11		
	Deepest Water Table Depth:	17		
	Average Water Table Depth:	Not Reported		
	Date:	05/1991		
<b>25</b> <b>NNE</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID:	330247	<b>AQUIFLOW</b>	<b>34744</b>
	Groundwater Flow:	NE		
	Shallowest Water Table Depth:	11.11		
	Deepest Water Table Depth:	19.83		
	Average Water Table Depth:	Not Reported		
	Date:	12/15/1994		
<b>26</b> <b>NNE</b> <b>1 - 2 Miles</b> <b>Higher</b>	Site ID:	330250	<b>AQUIFLOW</b>	<b>34842</b>
	Groundwater Flow:	NE		
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	20		
	Date:	09/1996		
<b>27</b> <b>South</b> <b>1 - 2 Miles</b> <b>Higher</b>	Site ID:	330482	<b>AQUIFLOW</b>	<b>34663</b>
	Groundwater Flow:	Not Reported		
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	24		
	Date:	12/1995		
<b>28</b> <b>WNW</b> <b>1 - 2 Miles</b> <b>Higher</b>	Site ID:	330186	<b>AQUIFLOW</b>	<b>34669</b>
	Groundwater Flow:	NE		
	Shallowest Water Table Depth:	7.09		
	Deepest Water Table Depth:	8.50		
	Average Water Table Depth:	Not Reported		
	Date:	06/1991		
<b>C32</b> <b>North</b> <b>1 - 2 Miles</b> <b>Lower</b>	Site ID:	330085	<b>AQUIFLOW</b>	<b>34741</b>
	Groundwater Flow:	SE		
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	Not Reported		
	Date:	02/14/1995		
<b>34</b> <b>SE</b> <b>1 - 2 Miles</b> <b>Higher</b>	Site ID:	330132	<b>AQUIFLOW</b>	<b>34711</b>
	Groundwater Flow:	W		
	Shallowest Water Table Depth:	3		
	Deepest Water Table Depth:	7		
	Average Water Table Depth:	Not Reported		
	Date:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**C35**  
**North**  
**1 - 2 Miles**  
**Lower**

Site ID: 330472  
Groundwater Flow: ESE  
Shallowest Water Table Depth: 14  
Deepest Water Table Depth: 17  
Average Water Table Depth: Not Reported  
Date: 08/10/1994

**AQUIFLOW 34732**

**36**  
**North**  
**1 - 2 Miles**  
**Lower**

Site ID: 330449  
Groundwater Flow: SSW  
Shallowest Water Table Depth: Not Reported  
Deepest Water Table Depth: Not Reported  
Average Water Table Depth: 15  
Date: 12/1992

**AQUIFLOW 34840**

**39**  
**NNE**  
**1 - 2 Miles**  
**Higher**

Site ID: 330424  
Groundwater Flow: NE  
Shallowest Water Table Depth: 1  
Deepest Water Table Depth: 2  
Average Water Table Depth: Not Reported  
Date: 08/1992

**AQUIFLOW 34607**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

### AREA RADON INFORMATION

Federal EPA Radon Zone for INGHAM County: 2

Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

Zip Code: 48910

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.600 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.183 pCi/L	83%	17%	0%

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

### HYDROGEOLOGIC INFORMATION

#### **AQUIFLOW<sup>R</sup> Information System**

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

### GEOLOGIC INFORMATION

#### **Geologic Age and Rock Stratigraphic Unit**

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### **STATSGO: State Soil Geographic Database**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### ADDITIONAL ENVIRONMENTAL RECORD SOURCES

#### **FEDERAL WATER WELLS**

##### **PWS: Public Water Systems**

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

##### **PWS ENF: Public Water Systems Violation and Enforcement Data**

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

**USGS Water Wells:** In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STATE RECORDS

#### Michigan Public and Private Water Wells

Source: Michigan Department of Natural Resources

Locations of verified municipal and private water well sites compiled from Michigan Department of Public Health, Water Well and Pump Records. Available in the following MI counties: Calhoun, Eaton, Genesee, Ingham, Jackson, Kalamazoo, Kent, Midland, Muskegon, Oakland, Ottawa, Saginaw, St. Clair, Washtenaw.

#### Michigan Oil and Gas Wells

Source: Michigan Department of Natural Resources

Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

### RADON

**Area Radon Information:** The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

**EPA Radon Zones:** Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

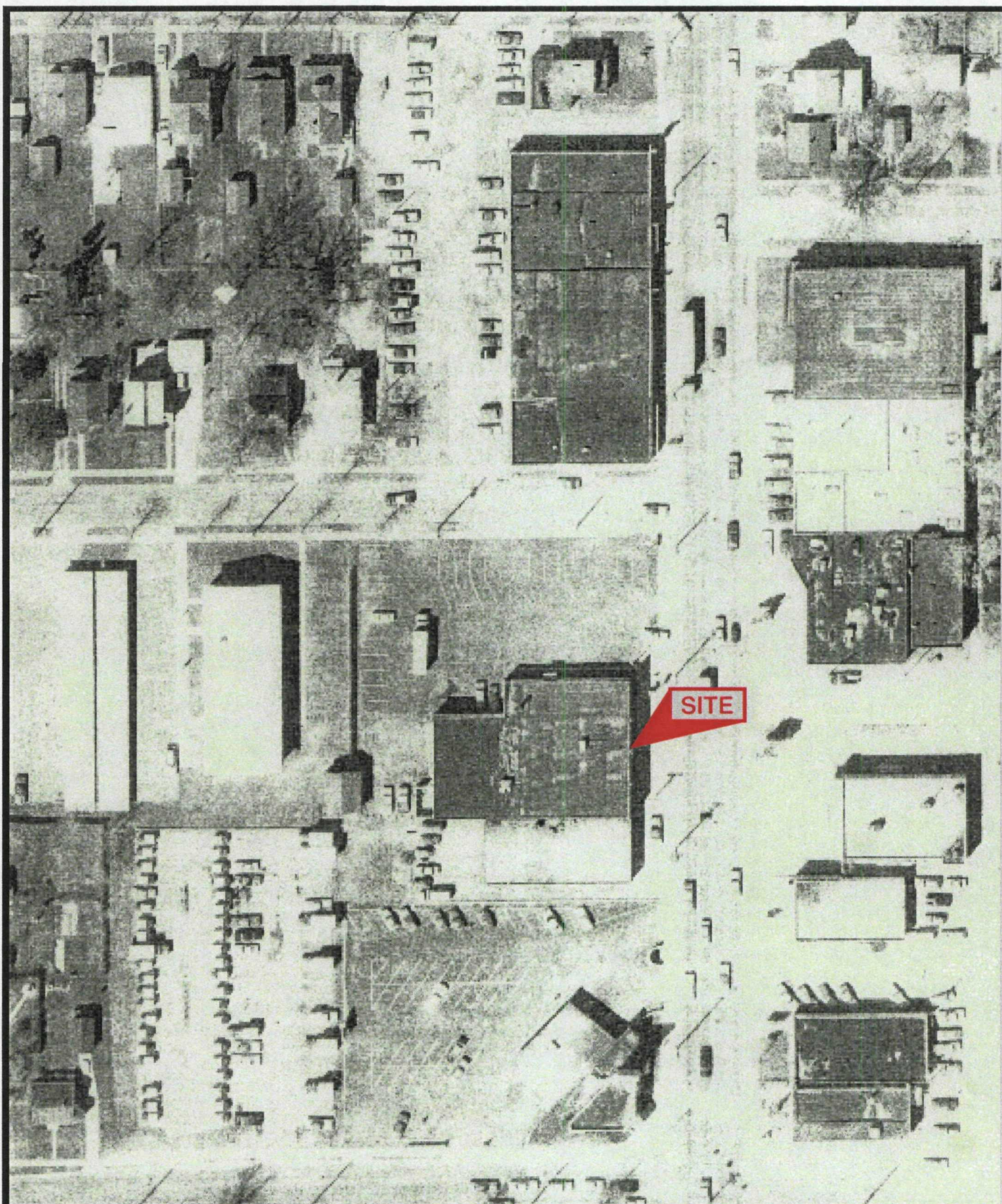
### OTHER

**Epicenters:** World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

## APPENDIX D





**AKTPEERLESS**  
environmental services

230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48606  
Phone: (989)754-9896 Fax: (989)754-3804

1974 AERIAL PHOTOGRAPH

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s  
DRAWING NUMBER : AERIAL 1974

DRAWN BY: OGO  
DATE: 07-25-01





**AKTPEERLESS**  
environmental services

230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48606  
Phone: (989)754-9896 Fax: (989)754-3804

1979 AERIAL PHOTOGRAPH

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s  
DRAWING NUMBER : AERIAL 1979

DRAWN BY: OGO  
DATE: 07-25-01





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environmental services

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1988 AERIAL PHOTOGRAPH

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s  
DRAWING NUMBER : AERIAL 1988

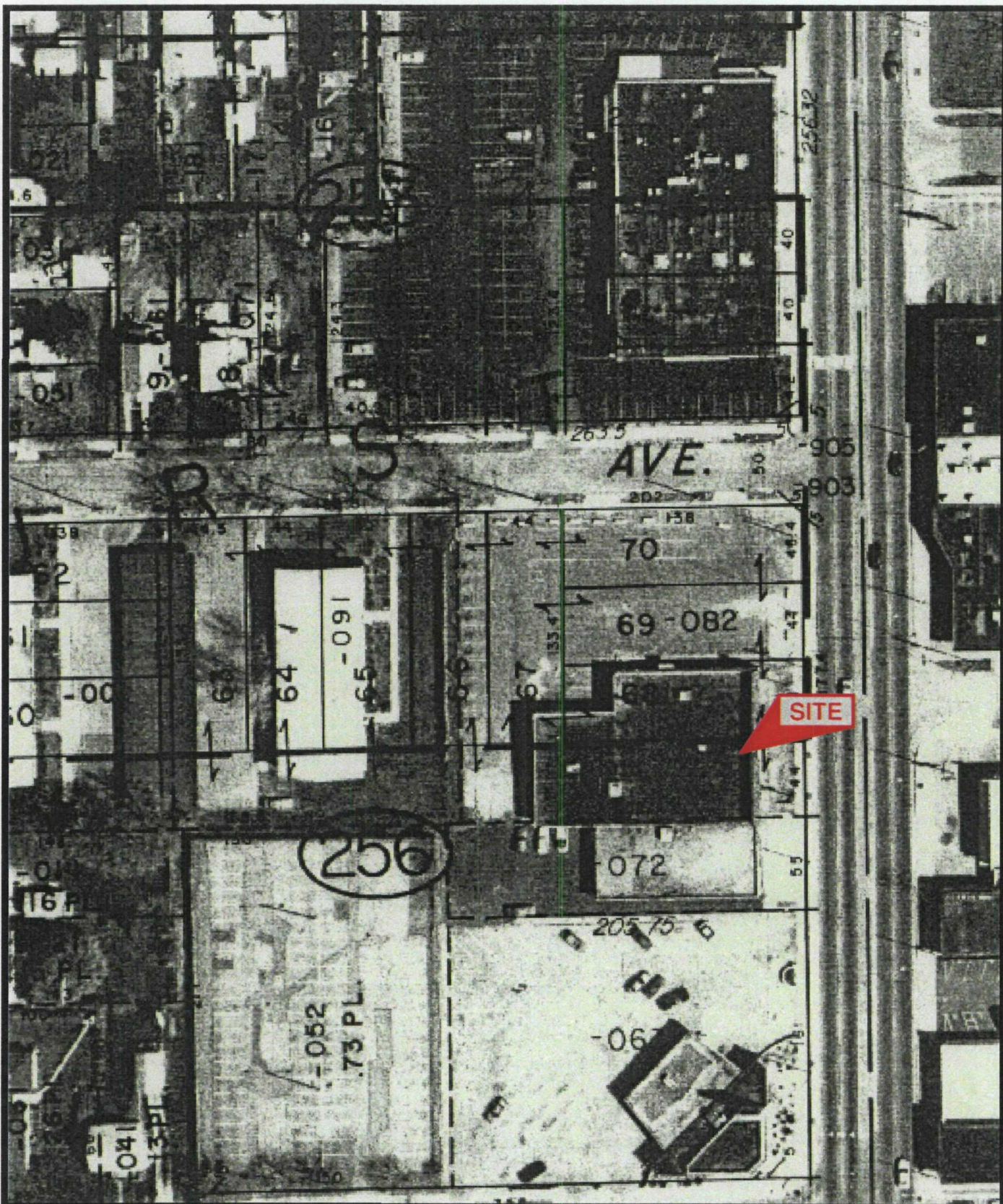
DRAWN BY: OGO  
DATE: 07-25-01





DATE: 07-25-01





**AKTPEERLESS**  
environmental services

230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48605  
Phone: (989)754-9896 Fax: (989)754-3804

1995 AERIAL PHOTOGRAPH

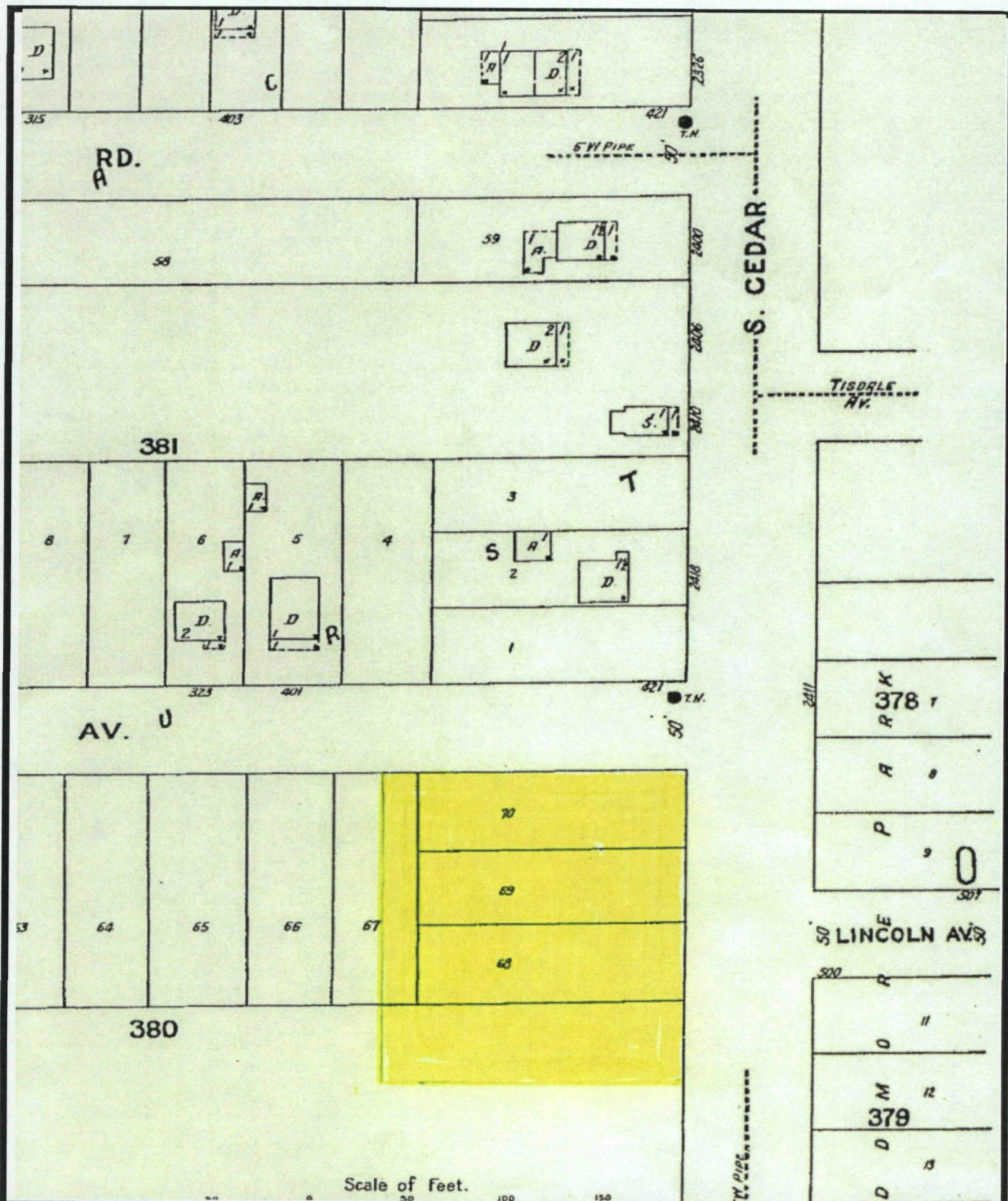
2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s  
DRAWING NUMBER : AERIAL 1995

DRAWN BY: OGO  
DATE: 07-25-01







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Phone: (989)754-9896 Fax: (989)754-3804

1926 SANBORN™ MAP

2510 S. CEDAR

LANSING, MICHIGAN

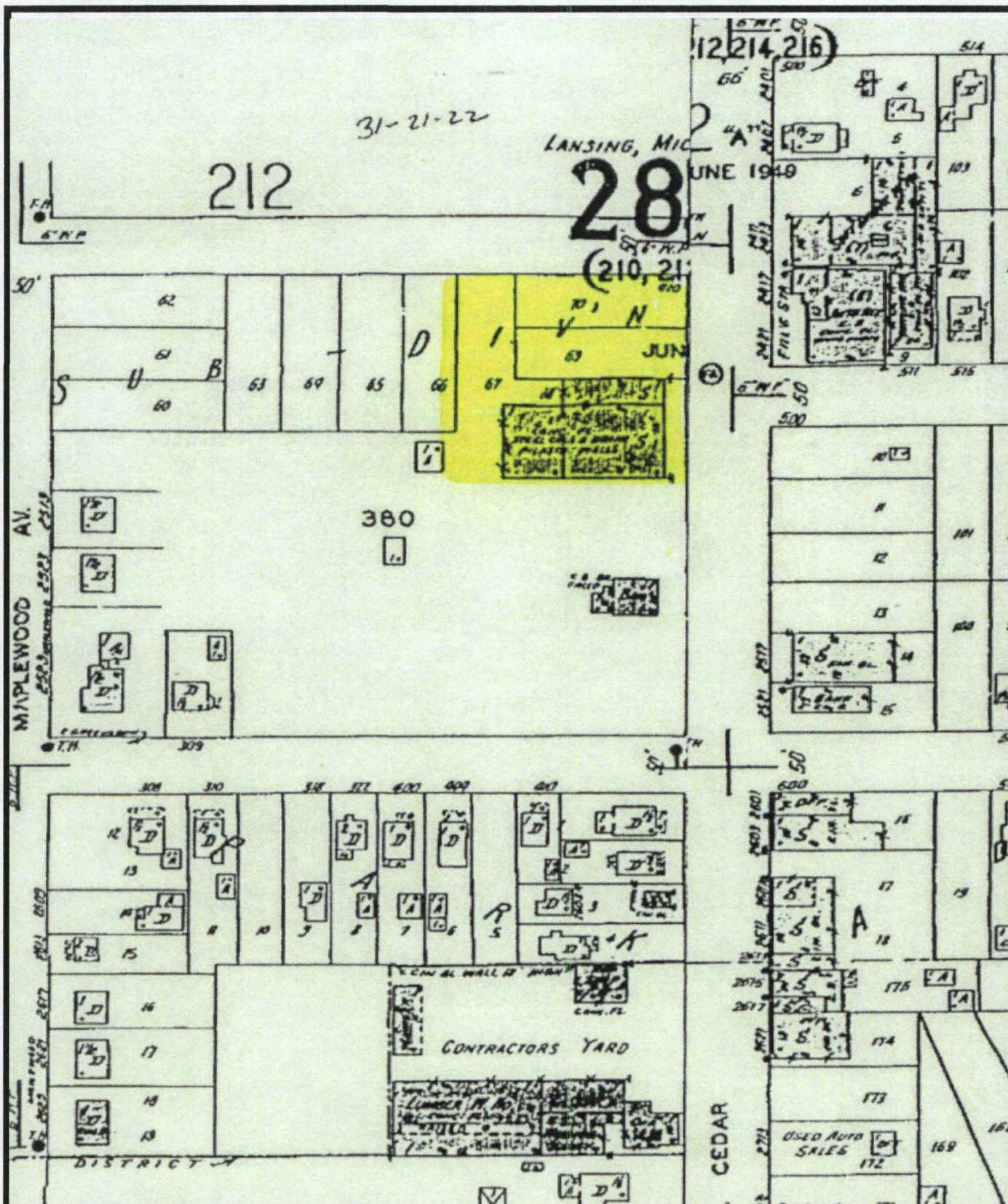
PROJECT NUMBER : 3268s

DRAWING NUMBER : 1926 SANBORN

SANBORN™ MAP PROVIDED BY ENVIRONMENTAL DATA RESOURCES, INC.

DRAWN BY: OGO  
DATE: 07-25-01





**AKTPEERLESS**  
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230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48606  
Phone: (989)754-9896 Fax: (989)754-3804

1951 SANBORN™ MAP

2510 S. CEDAR  
LANSING, MICHIGAN

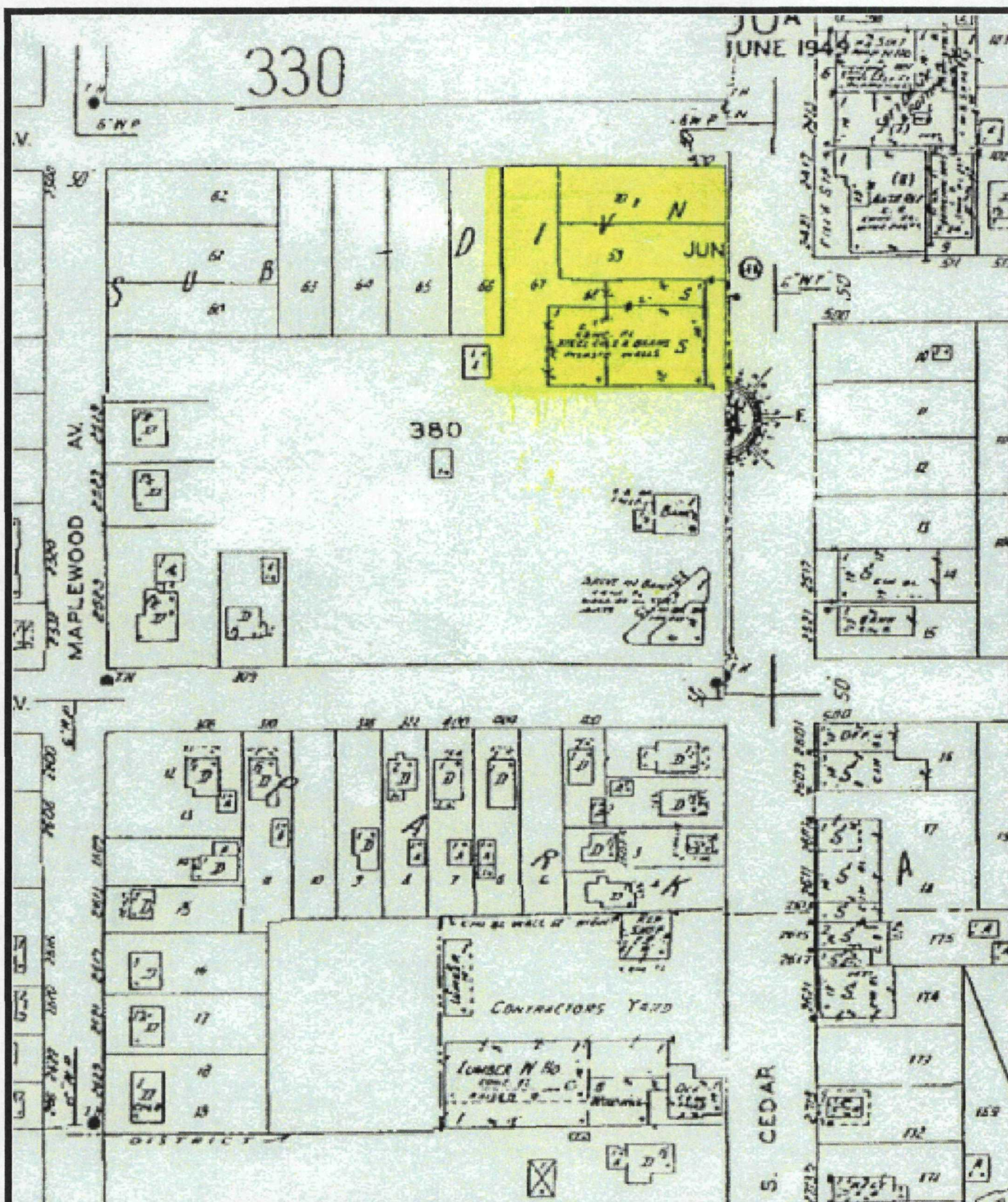
PROJECT NUMBER : 3268s

DRAWING NUMBER : 1951 SANBORN

SANBORN™ MAP PROVIDED BY ENVIRONMENTAL DATA RESOURCES, INC.

DRAWN BY: OGO  
DATE: 07-25-01





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230 S. Washington Ave., Suite 300, P.O. Box 1873, Saginaw, MI 48605  
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1953 SANBORN™ MAP

2510 S. CEDAR

LANSING, MICHIGAN

PROJECT NUMBER : 3268s

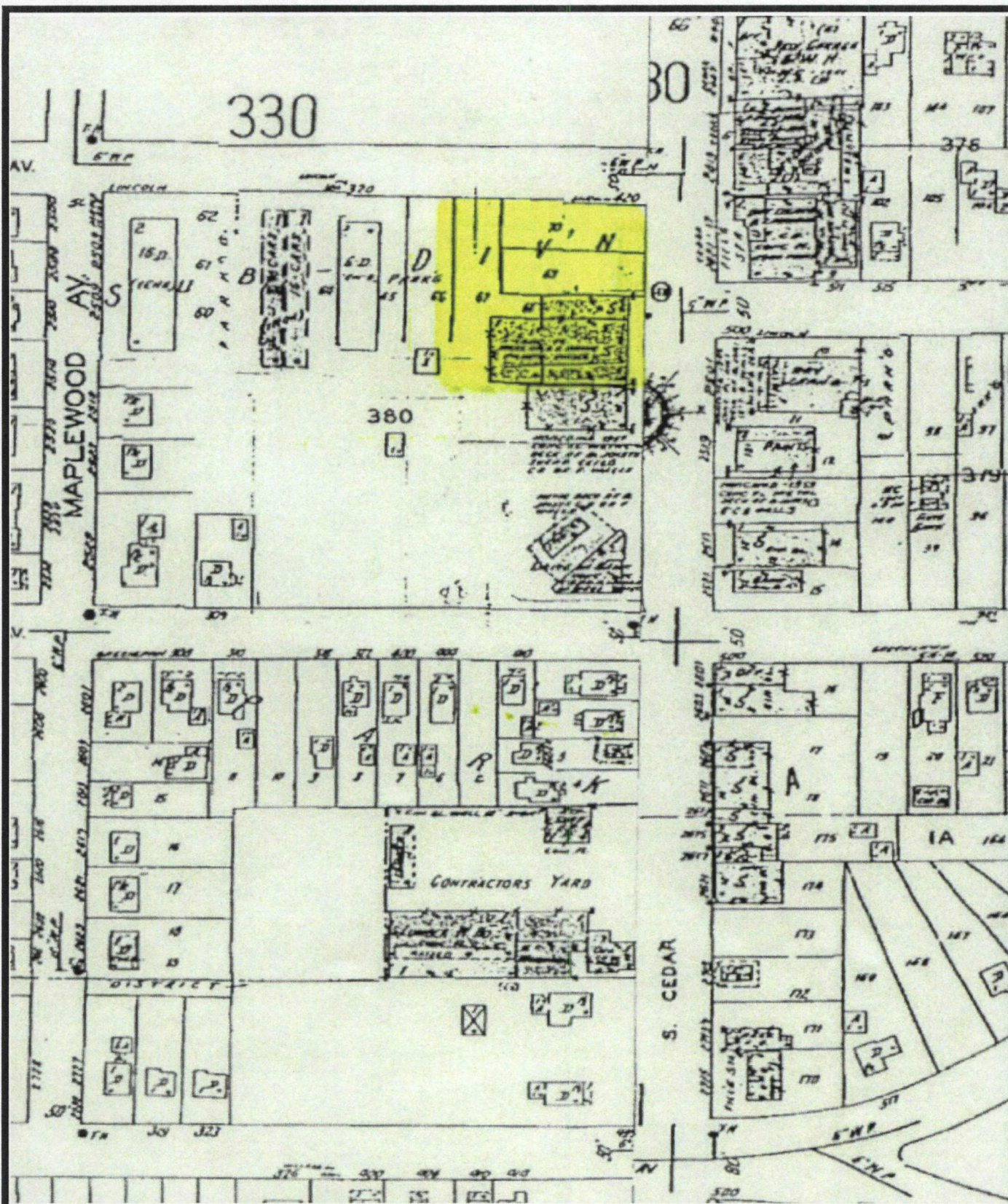
DRAWING NUMBER : 1953 SANBORN

SANBORN™ MAP PROVIDED BY ENVIRONMENTAL DATA RESOURCES, INC.

DRAWN BY: OGO

DATE: 07-25-01





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environmental services

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Phone: (989)754-9896 Fax: (989)754-3804

1969 SANBORN™ MAP

2510 S. CEDAR  
LANSING, MICHIGAN

PROJECT NUMBER : 3268s

DRAWING NUMBER : 1969 SANBORN

SANBORN™ MAP PROVIDED BY ENVIRONMENTAL DATA RESOURCES, INC.

DRAWN BY: OGO

DATE: 07-25-01



## APPENDIX F

# AKT Peerless Environmental Site Inspection Checklist

Project Name: LBN/2508 S. CEDAR  
 Project Number: 32683  
 Environmental Property Assessor: BYRON LBN

Location: 2508 S. CEDAR LANSING, MI  
 Inspection Date: 7/23/01

Indications of...	Yes/No	Comments/Observations
Hazardous Substances and Petroleum Products	Yes <input checked="" type="radio"/> No	
Hazardous Wastes	Yes <input checked="" type="radio"/> No	
Non-Hazardous Wastes	Yes <input checked="" type="radio"/> No	
Unidentified Substances	Yes <input checked="" type="radio"/> No	
Storage Tanks	Yes <input checked="" type="radio"/> No	POSSIBLE FILL/VENT INTERIOR
Suspect PCB Sources	<input checked="" type="radio"/> Yes No	
Suspect Asbestos Sources	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No	9x9 FT
Stained Soils	Yes <input checked="" type="radio"/> No	
Stressed Vegetation	Yes <input checked="" type="radio"/> No	
Stained Pavement or Floors	<input checked="" type="radio"/> Yes No	WEST END INTERIOR
Fill or Stockpiled Materials	Yes <input checked="" type="radio"/> No	
Waste Pits, Lagoons, or Pools of Liquid	Yes <input checked="" type="radio"/> No	
Site Landfills/Surface Impoundment's	Yes <input checked="" type="radio"/> No	
Floor Drains/Sumps	<input checked="" type="radio"/> Yes No	2 FD / 1 FLOOR PIT PIPE LEAKING EXTERIOR
Pesticide/Herbicide Usage	Yes <input checked="" type="radio"/> No	
Miscellaneous/Construction Debris	Yes <input checked="" type="radio"/> No	
Odors	Yes <input checked="" type="radio"/> No	
Other	Yes <input checked="" type="radio"/> No	

## **APPENDIX G**

# BRADLEY C. CLARK

## PROFESSIONAL PROFILE

### AREA OF SPECIALIZATION

- Phase I Environmental Site Assessments
- Phase II Subsurface Investigations
- Baseline Environmental Assessments
- Brownfield Redevelopment
- Act 451 Part 201 Regulatory Compliance and Site Investigations
- Act 451 Part 213 Regulatory Compliance and Site Investigations

### PROFESSIONAL EXPERIENCE

#### **AKT Peerless Environmental Services, Inc.**

##### **Project Manager**

1999 - Present

Responsible for managing Phase I and II Environmental Site Assessments, Baseline Environmental Assessments, and Brownfield Redevelopment projects. Coordinate and facilitate redevelopment efforts of Brownfield properties with developers, municipalities, and Brownfield Redevelopment Authorities through technical environmental services and assistance in obtaining available economic advantages. Management of UST risk based closure assessments, preparation of regulatory reports, project budget analysis and development and maintenance of client and regulatory agency contacts.

#### **Environmental Testing & Consulting, Inc.**

##### **Senior Project Manager**

1997 - 1998

Responsible for management and operation of environmental division in district office, including project and office budget analysis, training and supervision of support staff, and development and maintenance of client and regulatory relationships. Project management of Phase I and II Site Assessments, Baseline Environmental Assessments, underground storage tank management, compliance analysis, emergency response, and wetland determinations. Preparation of regulatory reports and implementation of field investigations.

#### **FAST Environmental, Inc.**

##### **Project Manager/Geoprobe Operator**

1996 - 1997

Management and operation of consulting department in office, including project budget analysis and development and maintenance of client relationships. Project management of Phase I and II Site Assessments and Baseline Environmental Assessments. Operation and maintenance of Geoprobe for subsurface soil and groundwater investigations.

#### **Growth Environmental Consulting, Inc.**

##### **Project Manager**

1994 - 1995

Project management of numerous UST sites including, initial assessment, hydrogeological investigation, corrective action feasibility studies, development and implementation of corrective actions. Phase I and Phase II Environmental Site Assessments, wetland determinations, emergency response, regulatory report production, client and regulatory agency contact.



Bradley C. Clark, Profile contd.

**Avendt Environmental, Inc./Advanced Environmental, Inc.**

**Field Coordinator/Project Manager**

1991 - 1994

Management and operation of field services department, including; scheduling and coordination of field staff resources, implementation of field activities, operation and maintenance of field equipment, supervision and training of field staff. Project management of UST sites including initial abatement, implementation of hydrogeological investigations, and regulatory report production. Responsible for the completion of Phase I and II Environmental Site Assessments, wetland determinations, and emergency response activities.

**Asbestos Management, Inc.**

**Building Inspector/Management Planner/Industrial Hygiene Technician**

1989 - 1991

Inspection and bulk sampling of asbestos containing building materials in schools, public, and private commercial buildings. Preparation of AHERA building inspection reports and management plans. Project management and industrial hygiene air sampling during asbestos abatement projects

**EDUCATION**

Michigan State University, East Lansing, MI

Bachelor of Science/Biology - 1985

Bachelor of Science/Psychology - 1987

**CERTIFICATIONS AND SPECIALIZED TRAINING**

OSHA Forty (40) Hour Hazardous Waste Operations Training

OSHA Eight (8) Hour Hazardous Waste Operations Refresher Training

## Glenn R. Tolan

### PROFESSIONAL PROFILE

---

#### **AREA OF SPECIALIZATION**

- Phase I Environmental Site Assessments
- Title V Air Permits

#### **PROFESSIONAL EXPERIENCE**

##### **AKT Peerless Environmental Services**

##### **Environmental Consultant II**

2001 - Present

Responsible for the completion of Phase I Environmental Site Assessments to meet or exceed ASTM standards. Coordinate and conduct historical research, interviews, site reconnaissance, and technical writing.

##### **Bruce Carter Associates, L.L.C.**

##### **Environmental Technician**

2000 - 2001

Responsible for the completion of Title V Permits, Federally Enforceable State Operating Permits (FESOPs), and emission registrations. Had to track product usage for clients to determine emissions of HAPs and VOCs. Wrote quarterly reports and emission inventories to fulfill permit requirements. Worked with MSDS and was responsible for the completion of Phase I Environmental Site Assessments.

#### **EDUCATION**

Michigan State University

Bachelor of Science Degree with high honors, Environmental Geoscience, December 1999

# LETTER OF TRANSMITTAL



WE ARE SENDING YOU: ☒ Attached ☐ Under separate cover \_\_\_\_\_

<b>TO: Dr. Mehboob Fatteh, M.D.</b>	<b>DATE: 8/03/01</b>	<b>JOB: 3268s</b>
<b>Cap-Lab, Inc.</b>	<b>RE:</b>	

- ☐ Report ☐ Prints ☐ Change Order ☐ Copy of Letter ☐ Proposal  
☐ Plans ☐ Samples ☐ Specifications ☐

COPIES	DATE	DESCRIPTION
1	07/27/01	Phase I Environmental Site Assessment for 2510 South Cedar Street in Lansing, Michigan.

## TRANSMITTED AS CHECKED BELOW :

- ☐ Approved as Noted ☐ Approved as Submitted ☐ As Requested ☐ Copies for Approval  
☐ Copies for Distribution ☐ Corrected Prints ☐ For Approval ☐ Returned After Loaned to Us  
☐ For Your Use ☐ Rejected ☐ Resubmit ☐ Return  
☐ Submit ☐ Returned for Corrections

## REMARKS:

Please contact me if you have any questions.

**COPY TO: Ms. Tracy Carney-Miller-Lansing BRA and  
Mr. Ross Powers-U.S. EPA.**

**SIGNED:**

### ☒ SAGINAW OFFICE

230 S. Washington Ave, Ste. 300  
Saginaw, Michigan 48605  
Phone No. (517) 754-9896  
Fax No. (517) 754-3804

### ☐ FARMINGTON HILLS OFFICE

24073 Research Drive  
Farmington Hills, Michigan 48335  
Phone No. (248) 615-1333  
Fax No. (248) 615-1334

### ☐ JACKSON OFFICE

100 W. Washington  
Jackson, Michigan 49201  
Phone No. (517) 787-3393  
Fax No. (517) 787-4508

### ☐ DETROIT OFFICE

220 Bagley Avenue, Ste. 318  
Detroit, Michigan 48226  
Phone No. (313) 961-5400  
Fax No. (313) 961-4377